

Fortsetzung

1.

5. \perp 0. (\perp . \perp , \top . \perp], (\perp . \perp , \top . \perp])

$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
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$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$$
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$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
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[illegible]

$((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\neg))$
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$$((\lceil \cdot \rceil, \lceil \cdot \rceil), [\lceil \cdot \rceil, \lceil \cdot \rceil])$$
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$$((\sqcup, \sqcap, \sqcup, \sqcap], [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup], [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$((\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$((\lceil \cdot \rceil, \rceil \cdot \rceil), [\lceil \cdot \rceil, \rceil \cdot \rceil])$$
$$((\lceil \cdot \rceil, \rceil \cdot \rceil), [\lceil \cdot \rceil, \rceil \cdot \rceil])$$
$$((\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
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$$((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$

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[illegible]

$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
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$$(\lceil \cdot \rceil, \rceil \cdot \rceil), (\lceil \cdot \rfloor, \rceil \cdot \rfloor]$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
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$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
 $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$

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([\perp . Γ , Γ . \neg) , [\neg . \neg , Γ . \neg])
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([\neg . \neg , Γ . \neg) , (\neg . \neg , Γ . Γ])

$$([\perp, \cdot], [\cdot, \perp], [\perp, \cdot], [\cdot, \top])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\perp], [\top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp, \cdot], [\cdot, \cdot]), [\perp, \cdot], [\cdot, \cdot])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\top], [\top.\top])$$
$$([\bot, \top], [\bot, \top], [\bot, \top], [\bot, \top])$$
$$([\bot, \top], [\bot, \top], [\bot, \top])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\top], [\top.\top])$$
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$$([\perp \cdot \top, \top \cdot \perp], (\perp \cdot \perp, \top \cdot \top])$$
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$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$

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[illegible]

[illegible]

$([a, b], [a, c])$

$([a, b], [a, d])$

$([a, b], [a, e])$

$([a, b], [c, d])$

$([a, b], [c, e])$

$([a, b], [c, f])$

$([a, b], [d, c])$

$([a, b], [d, e])$

$([a, b], [d, f])$

$([a, b], [e, c])$

$([a, b], [e, d])$

$([a, b], [e, f])$

$([a, b], [f, c])$

$([a, b], [f, d])$

$([a, b], [f, e])$

$([a, b], [c, d])$

$([a, b], [c, e])$

$([a, b], [c, f])$

$([a, b], [d, c])$

$([a, b], [d, e])$

$([a, b], [d, f])$

5. $[a, b].([c, d], [c, e])$

$([c, d], [c, d])$

$([c, d], [c, e])$

$([c, d], [d, c])$

((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.⌈))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ. Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌈))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ. Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ.⌈))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ. Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.⌈))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ. Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌈))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ. Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌈ , Γ.⌈))
((⌊ . Γ , Γ. Γ) , (⌋ .⌋ , Γ.⌋))
((⌊ . Γ , Γ. Γ) , (⌋ .⌋ , Γ. Γ))
((⌊ . Γ , Γ. Γ) , (⌋ .⌋ , Γ.⌈))
((⌊ . Γ , Γ. Γ) , (⌋ . Γ , Γ.⌋))
((⌊ . Γ , Γ. Γ) , (⌋ . Γ , Γ. Γ))
((⌊ . Γ , Γ. Γ) , (⌋ . Γ , Γ.⌈))
((⌊ . Γ , Γ. Γ) , (⌋ .⌈ , Γ.⌋))
((⌊ . Γ , Γ. Γ) , (⌋ .⌈ , Γ. Γ))
((⌊ . Γ , Γ. Γ) , (⌋ .⌈ , Γ.⌈))

[illegible]

$((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top], (\perp.\top, \Gamma.\top))$

$((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \Delta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Delta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Delta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Delta]))$

$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil], (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\sqcup, \sqcap, \sqcup, \sqcap], (\sqcup, \sqcap, \sqcup, \sqcap))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil], (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp))$$
$$((\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil], (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil], (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\sqcup, \sqcap, \sqcap.\sqcap], (\sqcup, \sqcap, \sqcap.\sqcap))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil], (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp, \top, \top, \top], (\perp, \perp, \top, \top])$$
$$((\sqcup, \sqcap, \sqcap.\sqcap], (\sqcup, \sqcup, \sqcap.\sqcap])$$
$$((\perp, \top, \top, \top], (\perp, \perp, \top, \top])$$
$$((\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp])$$
$$((\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top])$$
$$((\perp, \top, \top, \top], (\perp, \top, \top, \top])$$
$$((\perp, \top, \top.\top], (\perp.\top, \top.\perp])$$
$$((\perp, \top, \top, \top], (\perp, \top, \top, \top])$$
$$((\perp, \top, \top.\top], (\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil], [\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil], [\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$

[illegible]

[illegible]

((ג.ה , ח.ה],(ג.ה , ח.ג])
 ((ג.ה , ח.ה],(ג.ה , ח.ד])
 ((ג.ה , ח.ה],(ג.ה , ח.ה])
 ((ג.ה , ח.ה],[ג.ג , ח.ג))
 ((ג.ה , ח.ה],[ג.ג , ח.ד))
 ((ג.ה , ח.ה],[ג.ג , ח.ה))
 ((ג.ה , ח.ה],[ג.ד , ח.ג))
 ((ג.ה , ח.ה],[ג.ד , ח.ד))
 ((ג.ה , ח.ה],[ג.ד , ח.ה))
 ((ג.ה , ח.ה],[ג.ה , ח.ג))
 ((ג.ה , ח.ה],[ג.ה , ח.ד))
 ((ג.ה , ח.ה],[ג.ה , ח.ה))
 ((ג.ה , ח.ה],[ג.ג , ח.ג])
 ((ג.ה , ח.ה],[ג.ג , ח.ד])
 ((ג.ה , ח.ה],[ג.ג , ח.ה])
 ((ג.ה , ח.ה],[ג.ד , ח.ג])
 ((ג.ה , ח.ה],[ג.ד , ח.ד])
 ((ג.ה , ח.ה],[ג.ד , ח.ה])
 ((ג.ה , ח.ה],[ג.ה , ח.ג])
 ((ג.ה , ח.ה],[ג.ה , ח.ד])
 ((ג.ה , ח.ה],[ג.ה , ח.ה])
 ([ג.ג , ח.ג),(ג.ג , ח.ג))
 ([ג.ג , ח.ג),(ג.ג , ח.ד))
 ([ג.ג , ח.ג),(ג.ג , ח.ה))
 ([ג.ג , ח.ג),(ג.ד , ח.ג))

$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \perp, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \perp, \top \cdot \top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \top, \top \cdot \top])$ $([\perp, \top, \top.\perp], (\perp.\top, \top.\perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp, \top, \top, \perp]), ([\perp, \top, \top, \top])$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$

([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg])

$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \rceil \cdot \rceil), (\lceil \cdot \rceil, \rceil \cdot \lfloor \cdot \rfloor)$$
$$(\lceil \cdot \rceil, \rceil \cdot \rceil), (\lceil \cdot \rceil, \rceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top], [\top, \top]), ([\perp, \perp], [\top, \perp])$$
$$([\perp, \top], [\top, \top]), ([\perp, \perp], [\top, \top])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
 $([\perp, \top], [\perp, \top]), ([\perp, \top], [\top, \perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp, \top], [\top, \top]), ([\perp, \top], [\top, \top])$ $([\perp, \top, \top, \top], [\perp, \top, \top, \perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor]$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\perp]))$$
$$([\sqcup, \sqcap, \sqcap.\sqcup], [\sqcup, \sqcup, \sqcap.\sqcup])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$

$([1, 7], [1, 1]), ([1, 7], [1, 1])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 1], [1, 1])$
 $([1, 7], [1, 1]), ([1, 1], [1, 7])$
 $([1, 7], [1, 1]), ([1, 1], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 1])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 1])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 1], [1, 1])$
 $([1, 7], [1, 1]), ([1, 1], [1, 7])$
 $([1, 7], [1, 1]), ([1, 1], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 1])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 1]), ([1, 7], [1, 1])$
 $([1, 7], [1, 1]), ([1, 7], [1, 7])$
 $([1, 7], [1, 7]), ([1, 1], [1, 1])$
 $([1, 7], [1, 7]), ([1, 1], [1, 7])$
 $([1, 7], [1, 7]), ([1, 1], [1, 7])$
 $([1, 7], [1, 7]), ([1, 7], [1, 1])$

$([1, 7], [7, 7]), [1, 1], [7, 1])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 1])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$

[illegible]

$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\bot, \top, \top, \bot], [\bot, \top, \top, \top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$$
$$([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp.\top, \top.\top], ([\perp.\perp, \top.\perp]))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \perp, \top \cdot \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \bot, \top \cdot \top))$$
$$([\perp.\top, \top.\top], ([\perp.\top, \top.\top]))$$
$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \perp, \top \cdot \perp]))$$
$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \perp, \top \cdot \top]))$$
$$([\perp, \top, \top, \top], ([\perp, \perp, \top, \top]))$$
$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \top, \top \cdot \perp]))$$

$(\lfloor . \Gamma, \Gamma. \Gamma], (\lfloor . \Gamma, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], (\lfloor . \Gamma, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], (\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], (\lfloor . \neg, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], (\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \Gamma, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \Gamma], [\lfloor . \neg, \Gamma. \Gamma])$
 $(\lfloor . \Gamma, \Gamma. \neg], (\lfloor . \neg, \Gamma. \neg])$
 $(\lfloor . \Gamma, \Gamma. \neg], (\lfloor . \neg, \Gamma. \Gamma])$

$([1, 2, 3], [1, 1, 3])$
 $([1, 2, 3], [1, 2, 1])$
 $([1, 2, 3], [1, 2, 2])$
 $([1, 2, 3], [1, 2, 3])$
 $([1, 2, 3], [1, 3, 1])$
 $([1, 2, 3], [1, 3, 2])$
 $([1, 2, 3], [1, 3, 3])$
 $([1, 2, 3], [2, 1, 1])$
 $([1, 2, 3], [2, 1, 2])$
 $([1, 2, 3], [2, 1, 3])$
 $([1, 2, 3], [2, 2, 1])$
 $([1, 2, 3], [2, 2, 2])$
 $([1, 2, 3], [2, 2, 3])$
 $([1, 2, 3], [2, 3, 1])$
 $([1, 2, 3], [2, 3, 2])$
 $([1, 2, 3], [2, 3, 3])$
 $([1, 2, 3], [3, 1, 1])$
 $([1, 2, 3], [3, 1, 2])$
 $([1, 2, 3], [3, 1, 3])$
 $([1, 2, 3], [3, 2, 1])$
 $([1, 2, 3], [3, 2, 2])$
 $([1, 2, 3], [3, 2, 3])$
 $([1, 2, 3], [3, 3, 1])$
 $([1, 2, 3], [3, 3, 2])$
 $([1, 2, 3], [3, 3, 3])$

$$([\perp, \top, \top, \top], [\perp, \perp, \top, \perp])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp], ([\perp.\perp, \top.\top]))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\perp))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$ $([\perp, \top], [\perp, \top])$ $([\perp, \top], [\perp, \top]), ([\perp, \top], [\perp, \top])$ $([\perp, \cdot], [\cdot, \perp]), ([\perp, \cdot], [\cdot, \top])$ $([\perp, \top], [\perp, \top])$ $([\perp, \top], [\perp, \top], (\perp, \top))$ $([\perp.\top, \top.\perp], (\perp.\top, \top.\top])$ $([\perp, \top], [\perp, \top])$

$$\begin{aligned}
& ([\perp . \top , \top . \bot], (\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], (\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \bot]) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \bot)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \bot)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \bot]) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \bot)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \bot], [\perp . \top , \top . \top)) \\
& ([\perp . \top , \top . \top], (\perp . \bot , \top . \bot)) \\
& ([\perp . \top , \top . \top], (\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \top], (\perp . \bot , \top . \top)) \\
& ([\perp . \top , \top . \top], (\perp . \top , \top . \bot)) \\
& ([\perp . \top , \top . \top], (\perp . \top , \top . \top))
\end{aligned}$$

$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp, \top], [\perp, \top], [\perp, \top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], ([\perp.\perp, \top.\perp]))$$
$$([\perp.\top, \top.\top], (\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\top], (\perp.\perp, \top.\top))$$
 $([\perp.\top, \top.\top], (\perp.\top, \top.\perp))$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\top))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
 $([\perp.\top, \top.\top], [\perp.\perp, \top.\perp])$ $([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$ $([\perp, \cdot], [\cdot, \cdot]), ([\perp, \cdot], [\cdot, \cdot])$ $([\perp.\top, \top.\top], (\perp.\top, \top.\perp])$ $([\perp, \top], [\top, \top]), ([\perp, \top], [\top, \top])$ $([\perp, \cdot], [\cdot, \cdot]), ([\perp, \cdot], [\cdot, \cdot])$ $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$ $([\perp, \cdot], [\cdot, \cdot]), ([\perp, \cdot], [\cdot, \top])$ $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\perp]))$$

$([1, 7], [7, 1], [1, 1], [7, 7])$

$([1, 7], [7, 1], [1, 1], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 1], [7, 1])$

$([1, 7], [7, 1], [1, 1], [7, 7])$

$([1, 7], [7, 1], [1, 1], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

$([1, 7], [7, 1], [1, 7], [7, 7])$

5. $[7, 1]([1, 1], [7, 1], [1, 1], [7, 7])$

$(([1, 1], [7, 1]), ([1, 1], [7, 1]))$

$(([1, 1], [7, 1]), ([1, 1], [7, 7]))$

$(([1, 1], [7, 1]), ([1, 1], [7, 7]))$

$(([1, 1], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 1], [7, 1]), ([1, 7], [7, 7]))$

$(([1, 1], [7, 1]), ([1, 7], [7, 7]))$

$(([1, 1], [7, 1]), ([1, 7], [7, 1]))$

[illegible]

$((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\perp])$

$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil])$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\sqcup, \top.\top))$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup))$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), [\lceil \cdot \rceil, \lceil \cdot \rceil])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top))$$
$$((\sqcup.\top, \top.\sqcup), [\sqcup.\top, \top.\top))$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\sqcup, \top.\sqcup])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$

$((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg], (\perp.\neg, \Gamma.\perp])$

$((\perp . \Gamma, \Gamma . \Pi), (\perp . \Gamma, \Gamma . \Pi))$
 $((\perp . \Gamma, \Gamma . \Pi), (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi), (\perp . \neg, \Gamma . \Pi))$
 $((\perp . \Gamma, \Gamma . \Pi), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \Pi])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \Pi])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \Pi])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \Pi])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi), [\perp . \neg, \Gamma . \Pi])$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \Pi))$

$([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\neg, \Gamma.\perp])$

$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \top])$$
$$(\llbracket \cdot \rrbracket, \vdash, \vdash), (\llbracket \cdot \rrbracket, \vdash, \vdash))$$
$$([\sqcup \cdot \sqcap, \sqcap \cdot \sqcap], [\sqcup \cdot \sqcup, \sqcap \cdot \sqcup])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\sqcup \cdot \sqcap, \sqcap \cdot \sqcup], [\sqcup \cdot \sqcup, \sqcap \cdot \sqcap])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, \lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$

[illegible]

[illegible]

([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . Γ])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . Γ])
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . Γ])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . Γ]))
([⊥ . Γ , Γ . Γ] , ([⊥ . Γ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . ⊥]))
([⊥ . Γ , Γ . Γ] , ([⊥ . ⊥ , Γ . Γ]))

[illegible]

$([1, 7], [1, 2], [1, 2], [1, 7])$
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$$([\perp.\perp], [\top.\top], [\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\perp])$$
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$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\perp])$$
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$$([\perp, \cdot], [\top, \cdot], [\perp, \cdot], [\top, \cdot])$$
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$$([\perp.\perp, \top.\top], (\perp.\top, \top.\top))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\top], [\top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$([\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
 $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp, \cdot], [\cdot, \top]), ([\perp, \cdot], [\cdot, \top])$ $([\perp, \cdot], [\cdot, \top], [\perp, \cdot, \cdot], [\cdot, \top, \cdot])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
 $([\perp, \cdot], [\cdot, \top], (\perp, \top, [\cdot, \top]))$ $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$ $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$ $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$

$$([\perp, \top, \top, \perp], (\perp, \top, \top, \perp))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$([\perp, \top, \top, \perp], ([\perp, \perp], [\top, \perp]))$$
$$([\perp.\top, \top.\perp], (\perp.\perp, \top.\top])$$
 $([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
 $([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$ $([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top]))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp]))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp]))$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp]))$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$

[illegible]

[illegible]

$([1.7, 7.7], [1.1, 7.1])$

$([1.7, 7.7], [1.1, 7.7])$

$([1.7, 7.7], [1.1, 7.7])$

$([1.7, 7.7], [1.7, 7.1])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.1])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

5.1 4. $([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.1, 7.1])$

$(([1.1, 7.1], [1.1, 7.7])$

$(([1.1, 7.1], [1.1, 7.7])$

$(([1.1, 7.1], [1.7, 7.1])$

$(([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.7, 7.1])$

$(([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.1, 7.1])$

$(([1.1, 7.1], [1.1, 7.7])$

$(([1.1, 7.1], [1.1, 7.7])$

$(([1.1, 7.1], [1.7, 7.1])$

$(([1.1, 7.1], [1.7, 7.7])$

$(([1.1, 7.1], [1.7, 7.7])$

((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))

((⌊ . Γ , Γ . ⌋) , [⌊ . Γ , Γ . Γ])
((⌊ . Γ , Γ . ⌋) , [⌊ . Γ , Γ . ⌋])
((⌊ . Γ , Γ . ⌋) , [⌊ . Γ , Γ . Γ])
((⌊ . Γ , Γ . ⌋) , [⌊ . Γ , Γ . Γ])
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , [⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ) , [⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ) , [⌊ . ⌋ , Γ . Γ))

$((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \perp])$

$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp, \top, \top, \top), (\perp, \top, \top, \perp])$$
$$((\perp, \top, \top, \top), (\perp, \top, \top, \top))$$
$$((\perp, \top, \top, \top), (\perp, \top, \top, \top])$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp, \top, \top, \top), (\perp, \top, \top, \top])$$
$$((\lceil \cdot \rceil, \rceil \cdot \rceil), [\lceil \cdot \rceil, \rceil \cdot \rceil))$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup, \sqcap, \sqcap.\sqcup])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup.\sqcap, \sqcap.\sqcup])$$
$$((\sqcup, \sqcap, \sqcap, \sqcup), [\sqcup, \sqcap, \sqcap, \sqcup])$$
$$((\sqcup, \sqcap, \sqcap, \sqcap), [\sqcup, \sqcap, \sqcap, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup, \sqcap], \sqcap.\sqcap)$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \perp])$$
$$((\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \top])$$
$$((\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \top])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup.\sqcap, \sqcap.\sqcup])$$
$$((\sqcup, \sqcap, \sqcap.\sqcap), [\sqcup.\sqcap, \sqcap.\sqcap])$$

$$\begin{aligned}
& ((\perp . \top , \top . \top), [\perp . \top , \top . \top]) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \perp , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \top)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \perp)) \\
& ((\perp . \top , \top . \perp), (\perp . \top , \top . \top)) \\
& ((\perp . \top , \top . \perp), [\perp . \perp , \top . \perp]) \\
& ((\perp . \top , \top . \perp), [\perp . \perp , \top . \top]) \\
& ((\perp . \top , \top . \perp), [\perp . \perp , \top . \top]) \\
& ((\perp . \top , \top . \perp), [\perp . \top , \top . \perp]) \\
& ((\perp . \top , \top . \perp), [\perp . \top , \top . \top]) \\
& ((\perp . \top , \top . \perp), [\perp . \top , \top . \top])
\end{aligned}$$

$((\perp.\top, \top.\perp), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\perp), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp), [\perp.\top, \top.\top])$
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 $((\perp.\top, \top.\perp), [\perp.\perp, \top.\top])$
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$((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
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 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$

$((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
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 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp))$
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 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$

$((\perp, \top, \top, \perp], (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], (\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], (\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp], (\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], (\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$

((⌊.Γ,Γ.⌋,⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.⌋,⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.⌋,⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.⌋,⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],⌊.⌋,Γ.⌋))

$((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \perp]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \perp]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \perp, \Gamma . \perp]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \perp, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \perp, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \perp]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \perp]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \perp, \Gamma . \perp)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \perp, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \perp, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \Gamma, \Gamma . \perp)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \Gamma, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \Gamma, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \neg, \Gamma . \perp)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \neg, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \neg, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \neg, (\perp . \perp, \Gamma . \perp)))$

((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌋, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊. ⌈, ⌈.⌈))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌋))
((⌊. ⌈, ⌈.⌈], ⌊.⌈, ⌈.⌈))

[illegible]

((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], [\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))
((\ .\ , \ .\], (\ .\ , \ .\]))

$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$

$([1.1], [1.7]), [1.1], [1.7])$
 $([1.1], [1.7]), [1.7], [1.1])$
 $([1.1], [1.7]), [1.7], [1.7])$
 $([1.1], [1.7]), [1.7], [1.7])$
 $([1.1], [1.7]), [1.7], [1.1])$
 $([1.1], [1.7]), [1.7], [1.7])$
 $([1.1], [1.7]), [1.1], [1.1])$
 $([1.1], [1.7]), [1.1], [1.7])$
 $([1.1], [1.7]), [1.1], [1.7])$
 $([1.1], [1.7]), [1.7], [1.1])$
 $([1.1], [1.7]), [1.7], [1.7])$
 $([1.1], [1.7]), [1.7], [1.1])$
 $([1.1], [1.7]), [1.7], [1.7])$
 $([1.7], [1.1]), ([1.1], [1.7])$
 $([1.7], [1.1]), ([1.1], [1.7])$
 $([1.7], [1.1]), ([1.7], [1.1])$
 $([1.7], [1.1]), ([1.7], [1.7])$
 $([1.7], [1.1]), ([1.7], [1.1])$
 $([1.7], [1.1]), ([1.7], [1.7])$
 $([1.7], [1.1]), ([1.7], [1.7])$
 $([1.7], [1.1]), ([1.1], [1.1])$

([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , [\perp . \perp , Γ . \perp]))
([\perp . Γ , Γ . Γ) , [\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , [\perp . \perp , Γ . \neg]))
([\perp . Γ , Γ . Γ) , [\perp . Γ , Γ . \perp]))
([\perp . Γ , Γ . Γ) , [\perp . Γ , Γ . Γ]))
([\perp . Γ , Γ . Γ) , [\perp . Γ , Γ . \neg]))

[illegible]

([\perp], \top), (\top , \top)
([\perp], \top), (\perp , \top)
([\perp], \top), (\perp , \perp))
([\perp], \top), (\perp , \top))
([\perp], \top), (\perp , \perp))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \perp , \perp))
([\perp], \top), (\perp , \perp , \top))
([\perp], \top), (\perp , \perp , \perp))
([\perp], \top), (\perp , \perp , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))
([\perp], \top), (\perp , \perp , \perp))
([\perp], \top), (\perp , \perp , \top))
([\perp], \top), (\perp , \perp , \perp))
([\perp], \top), (\perp , \perp , \top))
([\perp], \top), (\perp , \top , \perp))
([\perp], \top), (\perp , \top , \top))

$([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\perp}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\perp}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\perp}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\perp}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\perp}, [\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\perp}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\perp}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\perp}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\top}, \Gamma_{\top})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\top}, \Gamma_{\perp})$
 $([\perp]_{\perp}, \Gamma_{\top}, (\perp]_{\top}, \Gamma_{\top})$

[illegible]

$$([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$$
 $([\perp, \top], [\perp, \perp], [\top, \top])$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
 $([\perp, \top], [\perp, \top])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rfloor, \lfloor \cdot \rceil))$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\top))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rfloor, \lfloor \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
 $([\perp, \top], [\perp, \top])$
$$([\perp, \top], [\perp, \top], [\perp, \top])$$
 $([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp, \top], [\perp, \top])$ $([\perp.\top, \top.\top], (\perp.\top, \top.\top])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$

$([a, b], [c, d], [a, b])$
 $([a, b], [c, d], [a, c])$
 $([a, b], [c, d], [a, d])$
 $([a, b], [c, d], [b, c])$
 $([a, b], [c, d], [b, d])$
 $([a, b], [c, d], [c, d])$
 $([a, b], [c, d], [c, a])$
 $([a, b], [c, d], [c, b])$
 $([a, b], [c, d], [c, c])$
 $([a, b], [c, d], [d, a])$
 $([a, b], [c, d], [d, b])$
 $([a, b], [c, d], [d, c])$
 $([a, b], [c, d], [a, c])$
 $([a, b], [c, d], [a, d])$
 $([a, b], [c, d], [b, c])$
 $([a, b], [c, d], [b, d])$
 $([a, b], [c, d], [c, d])$
 $([a, b], [c, d], [c, a])$
 $([a, b], [c, d], [c, b])$
 $([a, b], [c, d], [c, c])$
 $([a, b], [c, d], [d, a])$
 $([a, b], [c, d], [d, b])$
 $([a, b], [c, d], [d, c])$
 $([a, b], [c, d], [a, c])$
 $([a, b], [c, d], [a, d])$
 $([a, b], [c, d], [b, c])$
 $([a, b], [c, d], [b, d])$
 $([a, b], [c, d], [c, d])$
 $([a, b], [c, d], [c, a])$
 $([a, b], [c, d], [c, b])$
 $([a, b], [c, d], [c, c])$
 $([a, b], [c, d], [d, a])$
 $([a, b], [c, d], [d, b])$
 $([a, b], [c, d], [d, c])$

([א.ה, א.ה], [א.ה, א.א])
([א.ה, א.ה], [א.ה, א.א])
([א.ה, א.ה], [א.ה, א.ה])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.ה])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.ה])
([א.ה, א.ה], [א.ה, א.א])
([א.ה, א.ה], [א.ה, א.ה])
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([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.ה])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.ה, א.א])
([א.ה, א.ה], [א.ה, א.א])
([א.ה, א.ה], [א.א, א.א])
([א.ה, א.ה], [א.א, א.ה])
([א.ה, א.ה], [א.א, א.ה])
([א.ה, א.ה], [א.א, א.א])

$$([\sqcup.\top, \top.\top], [\sqcup.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$

5. $([\perp, \cdot], [\cdot, \cdot]), ([\perp, \cdot], [\cdot, \cdot])$

$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$$
$$((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\perp \cdot \perp, \top \cdot \perp), (\perp \cdot \perp, \top \cdot \top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rceil])$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top])$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp])$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top])$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$

$((\perp.\perp, \top.\perp), [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp), [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp), [\perp.\top, \top.\top])$
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((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
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((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . ⌊))
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((⌊ . Γ , Γ . Γ), (⌊ . ⌊ , Γ . Γ))
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((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . Γ))

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 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$

$((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\perp))$
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 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\perp))$
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[illegible]

$$((\perp, \top, \top, \top], (\perp, \top, \top, \top])$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil], (\lceil \cdot \rceil, \lceil \cdot \rceil])$$
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$$((\lceil \cdot \rceil, \lceil \cdot \rceil], [\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
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$$((\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$

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 $([1.1], [1.7]), [1.7], [1.1])$
 $([1.1], [1.7]), [1.7], [1.7])$
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 $([1.7], [1.1]), ([1.1], [1.7])$
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 $([1.7], [1.1]), ([1.7], [1.7])$
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 $([1.7], [1.1]), ([1.1], [1.1])$
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 $([1.7], [1.1]), ([1.7], [1.1])$
 $([1.7], [1.1]), ([1.7], [1.7])$

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([\perp . Γ , Γ . Γ), [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ), [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ), [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . Γ)]
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([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . Γ)]
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . Γ)]

[illegible]

$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
 $([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
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$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
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$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
$$([\perp, \top], [\perp, \top]), ([\perp, \bot], [\perp, \top])$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
$$([\perp . \top, \top . \top], [\perp . \top, \top . \perp])$$
$$([\perp . \top, \top . \top], [\perp . \top, \top . \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
$$([\perp.\top, \top.\top), [\perp.\perp, \top.\perp))$$
$$(\llbracket \cdot \rrbracket, \vdash, \vdash), (\llbracket \cdot \rrbracket, \vdash, \vdash))$$

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], (\perp.\perp, \top.\top))$
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 $([\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $([\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $([\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $([\perp.\perp, \top.\perp], (\perp.\perp, \top.\perp])$
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$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\perp))$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $([\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $([\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\perp))$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $([\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$

$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp.\top, \top.\top], ([\perp.\perp, \top.\perp]))$$
$$([\perp.\top, \top.\top], (\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\top], (\perp.\perp, \top.\top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\top))$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\perp))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
 $([\perp, \top, \top, \top], [\perp, \perp, \top, \perp])$ $([\perp, \top, \top.\top], (\perp.\perp, \top.\top])$ $([\perp, \top, \top.\top], (\perp.\perp, \top.\top])$ $([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp, \top, \top, \top], (\perp, \top, \top, \top))$ $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$ $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$ $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$

[illegible]

$$\begin{aligned}
& ([\perp . \top, \top . \perp], [\perp . \top, \top . \top]) \\
& ([\perp . \top, \top . \perp], [\perp . \top, \top . \perp]) \\
& ([\perp . \top, \top . \perp], [\perp . \top, \top . \top]) \\
& ([\perp . \top, \top . \perp], [\perp . \top, \top . \top]) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \perp, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \perp)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], (\perp . \top, \top . \top)) \\
& ([\perp . \top, \top . \top], [\perp . \perp, \top . \perp]) \\
& ([\perp . \top, \top . \top], [\perp . \perp, \top . \top]) \\
& ([\perp . \top, \top . \top], [\perp . \perp, \top . \top])
\end{aligned}$$

$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], (\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], ([\perp.\top, \top.\top]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top))$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$

5. \perp 6. $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

[illegible]

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((⌊.7, ⌈.⌋), [⌋.⌋, ⌈.7))
((⌊.7, ⌈.⌋), [⌋.⌈, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌋.⌈, ⌈.⌈))

$((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$

$((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \perp , \top . \perp])$
 $((\perp . \perp , \top . \perp], [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \perp])$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \perp])$
 $((\perp . \perp , \top . \perp], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \perp])$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$

[illegible]

$((\perp, \perp, \top, \top), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \perp, \top, \perp))$
 $((\perp, \perp, \top, \top), (\perp, \perp, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \perp, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \perp))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \perp))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \perp, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \perp, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp), (\perp, \top, \top, \top))$

((⌊.Γ,Γ.Π],[⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Π],[⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Π],[⌊.Γ,Γ.Π))
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((⌊.Γ,Γ.Γ],[⌊.⌋,Γ.Π))
((⌊.Γ,Γ.Γ],[⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.Π))
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((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.Π))
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((⌊.Γ,Γ.Γ],[⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Γ],[⌊.⌋,Γ.Π))
((⌊.Γ,Γ.Γ],[⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.Π))
((⌊.Γ,Γ.Γ],[⌊.Γ,Γ.Γ))

[illegible]

((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.א))
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((א.ה, א.ה], [א.ה, א.ה])
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((א.ה, א.ה], [א.ה, א.א))
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.א))

$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp . \perp], [\top . \perp]), ([\perp . \top], [\top . \top])$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\perp])$$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\top])$$
 $([\perp, \cdot], [\cdot, \perp]), ([\perp, \cdot], [\cdot, \top])$ $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
 $([\perp, \cdot], \vdash, \cdot), ([\perp, \vdash, \cdot])$ $([\perp, \cdot], [\cdot, \perp]), ([\perp, \neg], [\cdot, \neg])$ $([\perp, \cdot], [\cdot, \perp]), ([\perp, \neg], [\neg, \perp])$ $([\perp.\perp], [\top.\perp]), ([\perp.\top], [\top.\top])$
$$([\perp \cdot \perp, \top \cdot \perp), [\perp \cdot \perp, \top \cdot \perp))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\perp))$$
$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\top))$$
 $([\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$

$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\perp))$$
$$([\bot.\bot, \top.\bot), [\bot.\top, \top.\top))$$
$$([\bot.\bot, \top.\bot), [\bot.\top, \top.\top))$$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\perp])$$
$$([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\perp], [\top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
 $([\perp, \cdot], \Gamma, \sqcap), (\perp, \cdot, \Gamma, \sqcap)$

$([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
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 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\neg, \Gamma.\perp])$

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[illegible]

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([1.1], [1.7], ([1.1], [1.7]))

[illegible]

([\perp . Γ , Γ . \perp], [\perp . \perp , Γ . Γ))
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([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \perp], [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \perp], [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \perp], [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \neg])
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([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ))

[illegible]

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$([1, 7], [7, 1], [1, 7], [7, 1])$

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$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

5.7. $([1, 7], [7, 1], [1, 7], [7, 1])$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))

$((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\perp))$
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 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\Gamma))$

((⌊.7, ⌈.⌋), (⌊.⌋, ⌈.7])
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$((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$
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 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$

[illegible]

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 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\Gamma))$

((א.ה, פ.פ], [א.ה, פ.פ))
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 ((א.ה, פ.פ], [א.א, פ.פ])
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 ((א.ה, פ.ה], (א.א, פ.פ))
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 ((א.ה, פ.ה], (א.פ, פ.פ])

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 $([\perp, \perp], \Gamma, \neg), ([\perp, \perp], \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \neg), ([\perp, \perp], \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \neg), ([\perp, \neg, \Gamma, \perp])$
 $([\perp, \perp], \Gamma, \neg), ([\perp, \neg, \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \neg), ([\perp, \neg, \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \neg), ([\perp, \neg, \neg, \perp])$

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([1.1, 1.7], [1.7, 1.7])

$$([\perp.\perp, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp, \top, \top, \perp]), ([\perp, \perp, \top, \perp])$$
$$([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \perp, \top \cdot \top])$$
$$([\perp, \top, \top, \perp]), ([\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \top, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$
$$([\perp \cdot \top, \top \cdot \perp]), ([\perp \cdot \top, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top]))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp])$$

$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \perp]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\sqcup, \sqcap, \sqcap, \sqcap], [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
 $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$

$$([\perp, \top], [\perp, \top], [\perp, \top])$$
$$([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp, \top], [\perp, \top], [\perp, \top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
 $([\perp.\top, \top.\top), (\perp.\top, \top.\top))$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
 $([\perp.\top, \top.\top], [\perp.\perp, \top.\perp])$ $([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$ $([\perp.\top, \top.\top], [\perp.\perp, \top.\top])$ $([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$ $([\perp, \top], [\perp, \top]), ([\perp, \top], [\perp, \top])$ $(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$

$$([\perp.\perp, \top.\top], [\perp.\perp, \top.\top])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp]))$$
$$([\perp.\perp], [\top.\top], [\perp.\perp], [\top.\perp])$$
$$([\perp, \cdot], [\cdot, \top], [\perp, \cdot], [\cdot, \top])$$
$$([\perp.\perp], [\top.\top], [\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp])$$
$$([\perp . \perp], [\top . \top], [\perp . \top], [\top . \top])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\perp]))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top]))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\top], [\top.\perp]))$$
$$([\perp.\perp, \top.\top], (\perp.\top, \top.\top))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\top], [\top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$

[illegible]

[illegible]

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 $([1, 7], [1, 7], [1, 1], [1, 1])$
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$([1, 7], [7, 1], [1, 7], [1, 7])$

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$([1, 7], [7, 1], [1, 7], [1, 7])$

$([1, 7], [7, 1], [1, 7], [1, 7])$

$([1, 7], [7, 1], [1, 1], [1, 1])$

$([1, 7], [7, 1], [1, 1], [1, 7])$

$([1, 7], [7, 1], [1, 1], [1, 7])$

$([1, 7], [7, 1], [1, 7], [1, 1])$

$([1, 7], [7, 1], [1, 7], [1, 7])$

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$([1, 7], [7, 1], [1, 7], [1, 1])$

$([1, 7], [7, 1], [1, 7], [1, 7])$

$([1, 7], [7, 1], [1, 7], [1, 7])$

5.1 8. $([1, 1], [1, 1], ([1, 7], [7, 1]))$

$(([1, 1], [1, 1]), ([1, 1], [1, 1]))$

$(([1, 1], [1, 1]), ([1, 1], [1, 7]))$

$(([1, 1], [1, 1]), ([1, 1], [1, 7]))$

$(([1, 1], [1, 1]), ([1, 7], [1, 1]))$

$(([1, 1], [1, 1]), ([1, 7], [1, 7]))$

$(([1, 1], [1, 1]), ([1, 7], [1, 7]))$

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 $((\perp, \perp), (\perp, \top))$
 $((\perp, \perp), (\top, \top))$

$((\perp . \perp , \top . \top), [\perp . \top , \top . \top])$
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 $((\perp . \top , \top . \perp), (\perp . \perp , \top . \top))$
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 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
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 $((\perp . \top , \top . \perp), (\perp . \top , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \perp , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \perp , \top . \top))$
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 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
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 $((\perp . \top , \top . \perp), [\perp . \perp , \top . \top])$
 $((\perp . \top , \top . \perp), [\perp . \perp , \top . \top])$
 $((\perp . \top , \top . \perp), [\perp . \top , \top . \perp])$
 $((\perp . \top , \top . \perp), [\perp . \top , \top . \top])$

$((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \perp, \Gamma.\perp))$
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 $((\perp . \Gamma, \Gamma.\top), (\perp . \perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\top), (\perp . \perp, \Gamma.\top))$

$((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \perp, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \perp))$

$$((\sqcup.\top, \top.\sqcup), [\sqcup.\sqcup, \top.\top])$$
$$((\sqcup.\top, \top.\sqcup), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup.\top, \top.\sqcup), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcap])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcap])$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$

[illegible]

$((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\top])$
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 $((\perp . \Gamma, \Gamma.\top], (\perp . \top, \Gamma.\top))$
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$((\perp . \Gamma, \Gamma. \Box, (\perp . \Gamma, \Gamma. \bot))$
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 $((\perp . \Gamma, \Gamma. \Box, (\perp . \Gamma, \Gamma. \neg))$
 $((\perp . \Gamma, \Gamma. \Box, (\perp. \neg, \Gamma. \bot))$
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 $((\perp . \Gamma, \Gamma. \Box, [\perp. \Gamma, \Gamma. \bot]))$
 $((\perp . \Gamma, \Gamma. \Box, [\perp. \Gamma, \Gamma. \Box]))$
 $((\perp . \Gamma, \Gamma. \Box, [\perp. \Gamma, \Gamma. \neg]))$
 $((\perp . \Gamma, \Gamma. \Box, [\perp. \neg, \Gamma. \bot]))$
 $((\perp . \Gamma, \Gamma. \Box, [\perp. \neg, \Gamma. \Box]))$
 $((\perp . \Gamma, \Gamma. \Box, [\perp. \neg, \Gamma. \neg]))$
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 $((\perp . \Gamma, \Gamma. \Box, [\perp. \neg, \Gamma. \neg]))$
 $((\perp . \Gamma, \Gamma. \neg, (\perp. \bot, \Gamma. \bot))$

[illegible]

((א.ה, ב.ב), (א.א, ב.ב))
((א.ה, ב.ב), (א.ב, ב.א))
((א.ה, ב.ב), (א.ב, ב.ב))
((א.ה, ב.ב), (א.ב, ב.ה))
((א.ה, ב.ב), (א.ה, ב.א))
((א.ה, ב.ב), (א.ה, ב.ב))
((א.ה, ב.ב), (א.ה, ב.ה))
((א.ה, ב.ה), (א.א, ב.א))
((א.ה, ב.ה), (א.א, ב.ב))
((א.ה, ב.ה), (א.א, ב.ה))
((א.ה, ב.ה), (א.ב, ב.א))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ה, ב.א))
((א.ה, ב.ה), (א.ה, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ה))
((א.ה, ב.ה), (א.א, ב.א))
((א.ה, ב.ה), (א.א, ב.ב))
((א.ה, ב.ה), (א.א, ב.ה))
((א.ה, ב.ה), (א.ב, ב.א))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))

$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$([\perp.\perp], [\top.\top]), ([\perp.\top], [\top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rceil]$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\perp]))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top]))$$
$$([\perp.\perp, \top.\top), [\perp.\top, \top.\perp))$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), \lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$([\perp._], \ulcorner._], [\perp._], \ulcorner._])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top, [\top.\top]]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\llbracket \cdot \rrbracket, \Vdash), \llbracket \cdot \rrbracket, \Vdash]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), \lfloor \cdot \rceil, \lceil \cdot \rfloor]$$

([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg])

$([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 1])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1])$

$([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_-)$
 $([\perp]_-, [\top]_+), ([\perp]_-, [\top]_+)$

[illegible]

$$([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\top], ([\perp.\perp, \top.\perp]))$$
$$([\perp, \top, \top, \top], (\perp, \perp, \top, \top))$$
$$([\perp.\top, \top.\top], (\perp.\perp, \top.\top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \bot, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \bot, \top \cdot \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\sqcup, \sqcap, \sqcap, \sqcap], [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \top, \top \cdot \top]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, (\lceil \cdot \rceil, \lceil \cdot \rceil))$$

[illegible]

[illegible]

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

$([1, 7], [7, 1], [1, 7], [7, 1])$

5.1 9. $([1, 7], [7, 1], [1, 7], [7, 1])$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$(([1, 7], [7, 1]), ([1, 7], [7, 1]))$

$$((\perp, \top, \top, \perp), (\perp, \perp, \top, \top))$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \perp))$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \top))$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \top))$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\perp, \top, \top, \perp), (\perp, \perp, \top, \perp])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp, \top, \top, \perp), (\perp, \perp, \top, \top])$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \perp])$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \top])$$
$$((\perp \cdot \top, \top \cdot \perp), (\perp \cdot \top, \top \cdot \top])$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\perp, \top, \top, \perp), (\perp, \top, \top, \perp))$$
$$((\sqcup, \sqcap, \sqcap, \sqcup), [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$((\sqcup, \sqcap, \sqcap, \sqcup), [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$((\sqcup, \sqcap, \sqcap, \sqcup), [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$((\perp \cdot \top, \top \cdot \perp), [\perp \cdot \top, \top \cdot \perp])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup \cdot \sqsupset, \sqsupset \cdot \sqcup), [\sqcup \cdot \sqsupset, \sqsupset \cdot \sqcup])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup, \sqcap, \sqcap.\sqcup])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup, \sqcap, \sqcap.\sqcap])$$
$$((\sqcup, \sqcap, \sqcap.\sqcup), [\sqcup, \sqcap, \sqcap.\sqcup])$$

$((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \neg . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \Gamma, \neg . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \Gamma), [\perp . \neg, \neg . \neg])$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \neg . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \neg . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \neg . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \neg . \neg))$
 $((\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \neg . \Gamma))$

$((\perp, \top), [\perp, \top])$
 $((\perp, \top), [\perp, \top])$
 $((\perp, \top), [\perp, \top])$
 $((\perp, \top), (\perp, \top))$
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 $((\perp, \top), (\perp, \top))$
 $((\perp, \top), [\perp, \top])$
 $((\perp, \top), [\perp, \top])$
 $((\perp, \top), [\perp, \top])$

$((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
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 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\perp])$

[illegible]

$((\perp . \perp , \top . \perp], [\perp . \top , \top . \top])$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
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 $((\perp . \perp , \top . \top], [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top], [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top], [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top], [\perp . \top , \top . \top))$

$((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\top, \Gamma.\top])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\top, \Gamma.\top))$

$((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\perp])$

((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.⌊, Γ.⌊))
((⌊.Γ, Γ.Γ], (⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.⌊))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.⌊))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.Γ], [⌊.⌊, Γ.Γ))

((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.⌊])
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.⌊])
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.Γ], [⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.⌊))
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.Γ))
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.⌊))
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ))
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.⌊])
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.⌊])
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.Γ, Γ.Γ])
((⌊.Γ, Γ.⌊], (⌊.⌊, Γ.⌊))

((א.ה , ב.ב],[א.ה , א.א])
((א.ה , ב.ב],[א.ה , ב.ב])
((א.ה , ב.ב],[א.ה , ב.ה])
((א.ה , ב.ה],(א.א , א.א))
((א.ה , ב.ה],(א.א , ב.ב))
((א.ה , ב.ה],(א.א , ב.ה))
((א.ה , ב.ה],(א.ב , א.א))
((א.ה , ב.ה],(א.ב , ב.ב))
((א.ה , ב.ה],(א.ב , ב.ה))
((א.ה , ב.ה],(א.ה , א.א))
((א.ה , ב.ה],(א.ה , ב.ב))
((א.ה , ב.ה],(א.ה , ב.ה))
((א.ה , ב.ה],(א.א , א.א])
((א.ה , ב.ה],(א.א , ב.ב])
((א.ה , ב.ה],(א.א , ב.ה])
((א.ה , ב.ה],(א.ב , א.א])
((א.ה , ב.ה],(א.ב , ב.ב])
((א.ה , ב.ה],(א.ב , ב.ה])
((א.ה , ב.ה],(א.ה , א.א])
((א.ה , ב.ה],(א.ה , ב.ב])
((א.ה , ב.ה],(א.ה , ב.ה])
((א.ה , ב.ה],[א.א , א.א))
((א.ה , ב.ה],[א.א , ב.ב))
((א.ה , ב.ה],[א.א , ב.ה))
((א.ה , ב.ה],[א.ב , א.א))

$([\perp, \cdot], [\cdot, \perp]), ([\perp, \cdot], [\cdot, \top])$
$$([\perp.\perp, \top.\perp]), ([\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\perp]), ([\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\perp]), ([\perp.\top, \top.\top])$$
$$([\perp.\perp, \top.\perp]), ([\perp.\top, \top.\perp])$$
$$([\perp.\perp], [\top.\perp]), ([\perp.\top], [\top.\top])$$
$$([\perp.\perp], [\top.\perp]), ([\perp.\top], [\top.\top])$$
$$([\perp.\perp], [\top.\perp]), ([\perp.\perp], [\top.\top])$$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\perp, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\perp))$$
$$([\perp \cdot \cdot], [\cdot \cdot]), [\perp \cdot \cdot], [\cdot \cdot \cdot])$$
$$([\perp.\downarrow, \uparrow.\downarrow), [\perp.\uparrow, \uparrow.\uparrow]))$$
$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\perp))$$
$$([\perp . \bot, \top . \bot], [\perp . \top, \top . \top])$$
$$([\perp.\perp, \top.\perp), [\perp.\top, \top.\top))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$$
$$([\perp \cdot \perp, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$
$$(\llbracket \cdot \rrbracket, \ulcorner \cdot \urcorner), \llbracket \cdot \urcorner, \ulcorner \cdot \rrbracket]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), \lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
 $([\perp . \perp , \top . \perp], [\perp . \top , \top . \perp])$
$$([\bot, \cdot], [\top, \cdot]), [\bot, \neg], [\top, \neg])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$

$(\perp . \Gamma , \Gamma . \bot) , (\perp . \Gamma , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \bot , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \bot , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \bot , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \Gamma , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \Gamma , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \Gamma , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , (\perp . \neg , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \bot , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \bot , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \bot , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \Gamma , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \Gamma , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \Gamma , \Gamma . \neg)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \neg , \Gamma . \bot)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \neg , \Gamma . \Gamma)$
 $(\perp . \Gamma , \Gamma . \bot) , [\perp . \neg , \Gamma . \neg)$

$(\perp . \Gamma, \Gamma . \Gamma), (\perp . \perp, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \perp, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \perp, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \perp, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \perp, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \perp, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \Gamma))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \Gamma, \Gamma . \neg))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \perp))$
 $(\perp . \Gamma, \Gamma . \neg), (\perp . \neg, \Gamma . \Gamma))$

$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
 $([\perp . \top, \top . \top], [\perp . \top, \top . \perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\top), (\perp.\top, \top.\perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
$$(\llbracket \cdot \rrbracket, \vdash, \Vdash, \Vdash^*), (\llbracket \cdot \rrbracket, \vdash, \Vdash)$$
 $([\perp, \top], [\perp, \bot], [\top, \top])$
$$([\perp . \top, \top . \top), [\perp . \perp, \top . \top))$$
$$([\perp . \top, \top . \top), [\perp . \top, \top . \perp]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp . \top, \top . \top), [\perp . \top, \top . \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
 $([\perp, \top], [\perp, \bot], [\top, \bot])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
 $([\perp, \top], [\perp, \top], [\perp, \top])$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor)$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
 $([\perp, \cdot], [\cdot, \top], [\perp, \cdot], [\cdot, \top])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, \lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp, \cdot], [\cdot, \top], [\perp, \cdot], [\cdot, \top])$

([1.7, 1.7], [1.1, 1.1])
([1.7, 1.7], [1.1, 1.2])
([1.7, 1.7], [1.1, 1.7])
([1.7, 1.7], [1.2, 1.1])
([1.7, 1.7], [1.2, 1.2])
([1.7, 1.7], [1.2, 1.7])
([1.7, 1.7], [1.7, 1.1])
([1.7, 1.7], [1.7, 1.2])
([1.7, 1.7], [1.7, 1.7])
([1.7, 1.7], [1.1, 1.1])
([1.7, 1.7], [1.1, 1.2])
([1.7, 1.7], [1.1, 1.7])
([1.7, 1.7], [1.2, 1.1])
([1.7, 1.7], [1.2, 1.2])
([1.7, 1.7], [1.2, 1.7])
([1.7, 1.7], [1.7, 1.1])
([1.7, 1.7], [1.7, 1.2])
([1.7, 1.7], [1.7, 1.7])
([1.7, 1.7], [1.1, 1.1])
([1.7, 1.7], [1.1, 1.2])
([1.7, 1.7], [1.1, 1.7])
([1.7, 1.7], [1.2, 1.1])
([1.7, 1.7], [1.2, 1.2])
([1.7, 1.7], [1.2, 1.7])
([1.7, 1.7], [1.7, 1.1])

([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . Γ))

$([1, 2, 3], [1, 2, 3])$
 $([1, 2, 3], [1, 2, 4])$
 $([1, 2, 3], [1, 2, 5])$
 $([1, 2, 3], [1, 3, 4])$
 $([1, 2, 3], [1, 3, 5])$
 $([1, 2, 3], [1, 4, 5])$
 $([1, 2, 3], [2, 3, 4])$
 $([1, 2, 3], [2, 3, 5])$
 $([1, 2, 3], [2, 4, 5])$
 $([1, 2, 3], [1, 2, 3, 4])$
 $([1, 2, 3], [1, 2, 3, 5])$
 $([1, 2, 3], [1, 2, 4, 5])$
 $([1, 2, 3], [1, 3, 4, 5])$
 $([1, 2, 3], [2, 3, 4, 5])$
 $([1, 2, 3], [1, 2, 3, 4, 5])$
 $([1, 2, 3], [1, 2, 3, 4, 6])$
 $([1, 2, 3], [1, 2, 3, 5, 6])$
 $([1, 2, 3], [1, 2, 4, 5, 6])$
 $([1, 2, 3], [1, 3, 4, 5, 6])$
 $([1, 2, 3], [2, 3, 4, 5, 6])$
 $([1, 2, 3], [1, 2, 3, 4, 5, 6])$
 $([1, 2, 3], [1, 2, 3, 4, 5, 7])$
 $([1, 2, 3], [1, 2, 3, 5, 6, 7])$
 $([1, 2, 3], [1, 2, 4, 5, 6, 7])$
 $([1, 2, 3], [1, 3, 4, 5, 6, 7])$
 $([1, 2, 3], [2, 3, 4, 5, 6, 7])$
 $([1, 2, 3], [1, 2, 3, 4, 5, 6, 7])$

[illegible]

[illegible]

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

5. $\Gamma 0. ([1.7], [1.7], [1.7], [1.7])$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor])$$
$$((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\perp.\perp, \top.\perp), [\perp.\top, \top.\perp))$$
$$((\perp.\perp, \top.\perp), [\perp.\top, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup \cdot \sqcup, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcap])$$
$$((\perp.\perp, \top.\perp), [\perp.\top, \top.\perp])$$
$$((\perp.\perp, \top.\perp), [\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\perp \cdot \perp, \top \cdot \top), (\perp \cdot \perp, \top \cdot \perp))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp.\perp, \top.\top), (\perp.\perp, \top.\top))$$

((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ .⌋ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , (⌊ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , (⌊ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.⌋))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ .⌋ , Γ.Γ))
((⌊ . Γ , Γ.⌋) , [⌋ . Γ , Γ.⌋))

$((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma), [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma), [\perp.\perp, \Gamma.\Gamma])$

((⌊ . Γ , Γ . Γ), [⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), [⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . Γ), (⌊ . Γ , Γ . Γ))

((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))

$((\perp, \top, \top), [\perp, \top, \top])$
 $((\perp, \top, \top), [\perp, \top, \top])$
 $((\perp, \top, \perp), (\perp, \perp, \perp))$
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 $((\perp, \top, \perp), [\perp, \perp, \perp])$
 $((\perp, \top, \perp), [\perp, \perp, \top])$
 $((\perp, \top, \perp), [\perp, \perp, \top])$
 $((\perp, \top, \perp), [\perp, \top, \perp])$
 $((\perp, \top, \perp), [\perp, \top, \top])$

$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
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$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$
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 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
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 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$

$((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$

$((\perp, \perp, \top, \top), (\perp, \perp, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \perp, \top, \bot))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \perp))$
 $((\perp, \perp, \top, \top), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \top, \bot, \top))$
 $((\perp, \perp, \top, \top), (\perp, \bot, \top, \perp))$
 $((\perp, \perp, \top, \top), (\perp, \bot, \top, \top))$
 $((\perp, \perp, \top, \top), (\perp, \bot, \bot, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \perp, \top, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \perp, \top, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \perp, \bot, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \perp, \bot, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \top, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \bot, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \bot, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \top, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \top, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \bot, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \bot, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \top, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \top, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \bot, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \top, \bot, \top))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \top, \perp))$
 $((\perp, \perp, \top, \bot), (\perp, \bot, \top, \top))$

$((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\perp))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\perp])$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\perp])$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\perp])$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg))$
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 $((\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg))$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $((\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$

$((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg])$
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 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\Gamma))$

((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.ה))
((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.א))
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((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.א])

$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \neg, \top \cdot \top])$$
$$([\perp, \top, \top, \perp]), [\perp, \top, \top, \top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \bot])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \bot])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\sqcup \cdot \sqcap, \sqcap \cdot \sqcup], [\sqcup \cdot \sqcup, \sqcap \cdot \sqcap])$$
$$([\sqcup \cdot \sqcap, \sqcap \cdot \sqcap), [\sqcup \cdot \sqcup, \sqcap \cdot \sqcup))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp]))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$

[illegible]

$([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$

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([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ], (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ], (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ], (\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \neg])

([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg])
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([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp))
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([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp])

([\perp . Γ , Γ . \neg], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \neg], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . Γ])
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . Γ]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . Γ]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . Γ]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . Γ]))
([\perp . Γ , Γ . \neg], [\neg . Γ , Γ . \neg]))
([\perp . Γ , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . \neg , Γ . \neg], [\neg . \neg , Γ . \neg]))
([\perp . \neg , Γ . \neg], [\neg . \neg , Γ . Γ]))

$([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 2]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 2]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
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 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$

[illegible]

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

5. $7.7. ([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7])$

$((\perp, \perp, \top), [\perp, \top, \top])$
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 $((\perp, \perp, \top), (\perp, \top, \perp))$
 $((\perp, \perp, \top), (\perp, \top, \top))$
 $((\perp, \perp, \top), (\perp, \top, \top))$
 $((\perp, \perp, \top), (\perp, \top, \perp))$
 $((\perp, \perp, \top), (\perp, \top, \top))$
 $((\perp, \perp, \top), (\perp, \top, \top))$
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 $((\perp, \perp, \top), [\perp, \perp, \top])$
 $((\perp, \perp, \top), [\perp, \perp, \top])$

((⌊ . Γ , Γ . ⌋) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . ⌋ , Γ . ⌋))
((⌊ . Γ , Γ . ⌋) , (⌊ . ⌋ , Γ . Γ))
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((⌊ . Γ , Γ . ⌋) , (⌊ . ⌋ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . ⌋))
((⌊ . Γ , Γ . ⌋) , (⌊ . Γ , Γ . Γ))

$((\perp.\top, \top.\perp), [\perp.\perp, \top.\perp])$
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 $((\perp.\top, \top.\perp), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\perp), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp), [\perp.\top, \top.\top])$
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 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$

$$((\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\sqcup, \top.\top))$$
$$((\perp.\top, \top.\top), [\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top))$$
$$((\perp.\top, \top.\top), [\perp.\top, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup.\top, \sqcap.\top), [\sqcup.\top, \sqcap.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup.\top, \sqcap.\top), [\sqcup.\bot, \sqcap.\sqcap])$$

$((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$

((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈, (⌊.⌈, ⌈.⌈))

$((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$

$((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \top], (\perp, \perp, \top, \perp))$
 $((\perp, \top, \top, \top], (\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \top], (\perp, \perp, \top, \top))$
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 $((\perp, \top, \top, \top], [\perp, \top, \top, \top))$

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 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$
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 $((\perp.\top, \top.\perp], (\perp.\perp, \top.\top])$
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 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\top, \top.\perp], (\perp.\perp, \top.\perp))$
 $((\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\perp], (\perp.\top, \top.\top))$

((א.ה, פ.פ], (א.ה, פ.פ])
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 ((א.ה, פ.פ], [א.א, פ.א]))
 ((א.ה, פ.פ], [א.א, פ.פ]))
 ((א.ה, פ.פ], [א.א, פ.ה]))
 ((א.ה, פ.פ], [א.פ, פ.א]))
 ((א.ה, פ.פ], [א.פ, פ.פ]))
 ((א.ה, פ.פ], [א.פ, פ.ה]))
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 ((א.ה, פ.פ], [א.ה, פ.ה]))
 ((א.ה, פ.פ], [א.א, פ.א])]
 ((א.ה, פ.פ], [א.א, פ.פ])]
 ((א.ה, פ.פ], [א.א, פ.ה])]
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 ((א.ה, פ.פ], [א.ה, פ.פ])]
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 ((א.ה, פ.ה], (א.א, פ.פ]))
 ((א.ה, פ.ה], (א.א, פ.ה]))
 ((א.ה, פ.ה], (א.פ, פ.א]))
 ((א.ה, פ.ה], (א.פ, פ.פ]))

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([\perp . \perp , \top . \top), (\perp . \perp , \top . \top))
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([\perp . \perp , \top . \top), (\perp . \top , \top . \perp))
([\perp . \perp , \top . \top), (\perp . \top , \top . \top))
([\perp . \perp , \top . \top), (\perp . \top , \top . \top))
([\perp . \perp , \top . \top), (\perp . \top , \top . \perp))
([\perp . \perp , \top . \top), (\perp . \top , \top . \top))
([\perp . \perp , \top . \top), (\perp . \top , \top . \top))
([\perp . \perp , \top . \top), (\perp . \perp , \top . \perp])
([\perp . \perp , \top . \top), (\perp . \perp , \top . \top)]
([\perp . \perp , \top . \top), (\perp . \top , \top . \perp])
([\perp . \perp , \top . \top), (\perp . \top , \top . \top)]
([\perp . \perp , \top . \top), (\perp . \top , \top . \perp])
([\perp . \perp , \top . \top), (\perp . \top , \top . \top)]
([\perp . \perp , \top . \top), (\perp . \top , \top . \perp])
([\perp . \perp , \top . \top), (\perp . \top , \top . \top)]
([\perp . \perp , \top . \top), [\perp . \perp , \top . \perp])
([\perp . \perp , \top . \top), [\perp . \perp , \top . \top])
([\perp . \perp , \top . \top), [\perp . \perp , \top . \top])
([\perp . \perp , \top . \top), [\perp . \top , \top . \perp])
([\perp . \perp , \top . \top), [\perp . \top , \top . \top])

$([\perp, \Gamma, \Gamma, \Gamma], [\perp, \perp, \Gamma, \perp])$
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 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \perp, \Gamma, \neg])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \Gamma, \Gamma, \perp])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \Gamma, \Gamma, \Gamma])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \Gamma, \Gamma, \neg])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \neg, \Gamma, \perp])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \neg, \Gamma, \Gamma])$
 $([\perp, \Gamma, \Gamma, \Gamma], [\perp, \neg, \Gamma, \neg])$
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 $([1.7, 1.1], [1.1, 1.7])$
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 $([1.7, 1.1], [1.1, 1.7])$
 $([1.7, 1.1], [1.1, 1.7])$

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([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\perp]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\perp]))
([\perp], [\top], (\perp], [\top]))
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([\perp], [\top], (\perp], [\perp]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\perp]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\top]))
([\perp], [\top], (\perp], [\perp]))
([\perp], [\top], (\perp], [\perp]))

$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
 $([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
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 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$

$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
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$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
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$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
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$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
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$$([\perp, \top, \top.\top], ([\perp, \perp], \top.\top))$$
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 $([1, 2, 3], [1, 5, 6])$
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 $([1, 2, 3], [2, 3, 6])$
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 $([1, 2, 3], [2, 4, 6])$
 $([1, 2, 3], [2, 5, 6])$
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 $([1, 2, 3], [3, 4, 6])$
 $([1, 2, 3], [3, 5, 6])$
 $([1, 2, 3], [4, 5, 6])$
 $([1, 2, 4], [1, 2, 5])$
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 $([1, 2, 4], [2, 3, 6])$
 $([1, 2, 4], [2, 4, 5])$
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 $([1, 2, 4], [2, 5, 6])$
 $([1, 2, 4], [3, 4, 5])$
 $([1, 2, 4], [3, 4, 6])$
 $([1, 2, 4], [3, 5, 6])$
 $([1, 2, 4], [4, 5, 6])$

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 $([1, 7], [1, 1], [1, 1], [1, 1])$
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$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$

5. $\top.\top.([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top]))$

$(([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp]))$

$((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \bot))$
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 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \bot, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \bot, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \bot, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\perp . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \bot, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \bot, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \bot, \Gamma . \neg))$
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 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \neg, \Gamma . \bot))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \neg, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \neg, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \Gamma), (\bot . \bot, \Gamma . \bot))$

$((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
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 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp])$
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$((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp])$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\perp])$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top])$

((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
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((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
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((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))

[illegible]

$((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Delta)))$
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 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Delta)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \Delta)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Delta)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \neg)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Delta)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \Gamma)))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \neg, \Gamma . \neg)))$
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 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \neg]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Delta]))$

((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.ה])
((א.ה, א.ה], [א.א, א.א))
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.א])
((א.ה, א.ה], [א.ה, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.א, א.א])
((א.ה, א.ה], [א.א, א.ה])
((א.ה, א.ה], [א.ה, א.א])

([\perp], \perp), (\top , \top), (\perp , \perp)]
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([\perp], \perp), (\top , \top), (\perp , \top)]
([\perp], \perp), (\top , \top), (\top , \top)]
([\perp], \perp), (\top , \top), (\top , \top)]
([\perp], \perp), (\top , \top), (\perp , \perp)]
([\perp], \perp), (\top , \top), (\top , \top)]
([\perp], \perp), (\top , \top), (\top , \top)]
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([\perp , \top , \perp], (\perp , \perp , \top))
([\perp , \top , \perp], (\perp , \top , \perp))
([\perp , \top , \perp], (\perp , \top , \top))
([\perp , \top , \perp], (\perp , \top , \top))
([\perp , \top , \perp], (\perp , \top , \perp))
([\perp , \top , \perp], (\perp , \top , \top))
([\perp , \top , \perp], (\perp , \top , \top))
([\perp , \top , \perp], (\perp , \perp , \perp)]
([\perp , \top , \perp], (\perp , \perp , \top)]
([\perp , \top , \perp], (\perp , \perp , \top)]
([\perp , \top , \perp], (\perp , \top , \perp)]
([\perp , \top , \perp], (\perp , \top , \top)]
([\perp , \top , \perp], (\perp , \top , \perp)]

[illegible]

[illegible]

$([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\perp))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\Gamma))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\neg))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\perp))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\Gamma))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\neg))$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\perp))$

$$\begin{aligned}
& ([\perp, \top, \top, \top], [\perp, \top, \top, \top]) \\
& ([\perp, \top, \top, \top], [\perp, \top, \top, \perp]) \\
& ([\perp, \top, \top, \top], [\perp, \top, \top, \top]) \\
& ([\perp, \top, \top, \top], [\perp, \top, \top, \top]) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \perp, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \perp)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], (\perp, \top, \top, \top)) \\
& ([\perp, \top, \top, \top], [\perp, \perp, \top, \perp]) \\
& ([\perp, \top, \top, \top], [\perp, \perp, \top, \top]) \\
& ([\perp, \top, \top, \top], [\perp, \perp, \top, \top])
\end{aligned}$$

[illegible]

([\perp . \top , \top . \perp], [\perp . \top , \top . \top])
([\perp . \top , \top . \top], (\perp . \perp , \top . \perp))
([\perp . \top , \top . \top], (\perp . \perp , \top . \top))
([\perp . \top , \top . \top], (\perp . \perp , \top . \top))
([\perp . \top , \top . \top], (\perp . \top , \top . \perp))
([\perp . \top , \top . \top], (\perp . \top , \top . \top))
([\perp . \top , \top . \top], (\perp . \top , \top . \top))
([\perp . \top , \top . \top], (\perp . \top , \top . \perp))
([\perp . \top , \top . \top], (\perp . \top , \top . \top))
([\perp . \top , \top . \top], (\perp . \top , \top . \top))
([\perp . \top , \top . \top], (\perp . \perp , \top . \perp])
([\perp . \top , \top . \top], (\perp . \perp , \top . \top])
([\perp . \top , \top . \top], (\perp . \perp , \top . \top])
([\perp . \top , \top . \top], (\perp . \top , \top . \perp])
([\perp . \top , \top . \top], (\perp . \top , \top . \top])
([\perp . \top , \top . \top], (\perp . \top , \top . \top])
([\perp . \top , \top . \top], (\perp . \top , \top . \perp])
([\perp . \top , \top . \top], (\perp . \top , \top . \top])
([\perp . \top , \top . \top], (\perp . \top , \top . \top])
([\perp . \top , \top . \top], [\perp . \perp , \top . \perp])
([\perp . \top , \top . \top], [\perp . \perp , \top . \top])
([\perp . \top , \top . \top], [\perp . \perp , \top . \top])
([\perp . \top , \top . \top], [\perp . \top , \top . \perp])
([\perp . \top , \top . \top], [\perp . \top , \top . \top])
([\perp . \top , \top . \top], [\perp . \top , \top . \top])

$([a, b], [c, d])$

$([a, b], [c, e])$

$([a, b], [c, f])$

$([a, b], [d, e])$

$([a, b], [d, f])$

$([a, b], [e, f])$

$([a, b], [c, d, e])$

$([a, b], [c, d, f])$

$([a, b], [c, e, f])$

$([a, b], [d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, e, f])$

5. $[a, b], [c, d], [e, f, g]$

$([a, b], [c, d], [e, f, g])$

((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
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((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌈, ⌈.⌈))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌋))
((⌊.⌋, ⌈.⌈), (⌊.⌋, ⌈.⌈))

$((\perp.\perp, \top.\top), [\perp.\perp, \top.\top])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\perp])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\top])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\top])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\perp])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\top])$

$((\perp.\perp, \top.\top), [\perp.\top, \top.\top])$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\perp, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\perp))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\perp), (\perp.\top, \top.\top))$

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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\Gamma])$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
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 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\neg, \Gamma.\perp))$

((⌊.7, ⌈.⌋), (⌊.⌋, ⌈.⌈))
((⌊.7, ⌈.⌋), (⌊.⌋, ⌈.7))
((⌊.7, ⌈.⌋), (⌊.⌈, ⌈.⌋))
((⌊.7, ⌈.⌋), (⌊.⌈, ⌈.⌈))
((⌊.7, ⌈.⌋), (⌊.⌈, ⌈.7))
((⌊.7, ⌈.⌋), (⌊.7, ⌈.⌋))
((⌊.7, ⌈.⌋), (⌊.7, ⌈.⌈))
((⌊.7, ⌈.⌋), (⌊.7, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.⌈))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.⌈))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.7, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.7, ⌈.⌈))
((⌊.7, ⌈.⌋), [⌊.7, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.⌈))
((⌊.7, ⌈.⌋), [⌊.⌋, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.⌈))
((⌊.7, ⌈.⌋), [⌊.⌈, ⌈.7))
((⌊.7, ⌈.⌋), [⌊.7, ⌈.⌋))
((⌊.7, ⌈.⌋), [⌊.7, ⌈.⌈))

$((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$

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$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$

[illegible]

$((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\top])$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp])$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top])$

$((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp))$
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 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg])$
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 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\perp))$

((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Π))
 ((⌊.Γ,Γ.Π,⌊.⌊,Γ.Γ))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌊))
 ((⌊.Γ,Γ.Π,⌊.Γ,Γ.Π))

((\gamma, \beta], (\alpha, \gamma])
((\gamma, \beta], (\alpha, \beta])
((\gamma, \beta], (\alpha, \gamma, \beta])
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((\gamma, \beta], (\alpha, \gamma, \beta])
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((\gamma, \beta], (\gamma, \gamma])
((\gamma, \beta], (\gamma, \beta])
((\gamma, \beta], [\alpha, \beta])
((\gamma, \beta], [\alpha, \gamma])
((\gamma, \beta], [\alpha, \beta])
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((\gamma, \beta], [\alpha, \gamma, \beta])
((\gamma, \beta], [\gamma, \beta])
((\gamma, \beta], [\gamma, \gamma])

[illegible]

$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor)$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \bot]))$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \Gamma, \Gamma \cdot \Gamma), [\perp \cdot \Gamma, \Gamma \cdot \Gamma))$$
$$(\llbracket \cdot \rrbracket, \vdash, \vdash), (\llbracket \cdot \rrbracket, \vdash, \vdash))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \perp])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, \lceil \cdot \rceil, \lfloor \cdot \rfloor)$$
 $([\perp, \top, \top, \top], [\perp, \top, \top, \top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$

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([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.7])

$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\top], [\top.\top])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\perp]), [\perp.\top], [\top.\top])$$
$$([\perp.\perp, \top.\top], ([\perp.\perp, \top.\perp]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp.\perp, \top.\top], ([\perp.\perp, \top.\top]))$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\perp]))$$
$$([\perp \cdot \perp, \top \cdot \top], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\perp]))$$
$$([\perp.\perp, \top.\top], ([\perp.\top, \top.\perp]))$$
$$([\bot.\bot, \top.\top], ([\bot.\top, \top.\top]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp.\perp], [\top.\top], ([\perp.\perp], [\top.\perp]))$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top]), ([\perp.\perp], [\top.\top])$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\perp]))$$
$$([\perp \cdot \perp], [\top \cdot \top], ([\perp \cdot \top], [\top \cdot \top]))$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\perp]))$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\perp]))$$
 $([\perp, \cdot], [\cdot, \top], (\perp, \cdot, \top))$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp])$$
$$([\perp \cdot \perp, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp]))$$

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([1.7, 1.7], [1.1, 1.7])
([1.7, 1.7], [1.1, 1.7])

$([1.7], [1.7], [1.7], [1.7])$

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$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

5. $\lceil 4. ([1.7], [1.7], [1.7], [1.7])$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$(([1.7], [1.7]), ([1.7], [1.7]))$

$((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp . \neg, \Gamma.\neg])$
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 $((\perp . \Gamma, \Gamma.\Gamma), (\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp . \Gamma, \Gamma.\perp))$
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 $((\perp . \Gamma, \Gamma.\Gamma), (\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma), (\perp . \perp, \Gamma.\Gamma])$

$((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$
 $((\perp.\top, \top.\top), [\perp.\top, \top.\top])$
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 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$

$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$

$((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma])$

$((\perp . \Gamma, \Gamma . \Pi, (\perp . \Delta, \Gamma . \eta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Delta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \Pi))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \Gamma, \Gamma . \eta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \eta, \Gamma . \Delta))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \eta, \Gamma . \Pi))$
 $((\perp . \Gamma, \Gamma . \Pi, (\perp . \eta, \Gamma . \eta))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \eta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \eta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \eta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Delta, \Gamma . \eta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \eta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \Delta]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \Gamma]))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \eta, \Gamma . \eta]))$

[illegible]

((א.ה, ב.ב), (א.א, ב.ב))
((א.ה, ב.ב), (א.א, ב.ה))
((א.ה, ב.ב), (א.ב, ב.א))
((א.ה, ב.ב), (א.ב, ב.ב))
((א.ה, ב.ב), (א.ב, ב.ה))
((א.ה, ב.ב), (א.ה, ב.א))
((א.ה, ב.ב), (א.ה, ב.ב))
((א.ה, ב.ב), (א.ה, ב.ה))
((א.ה, ב.ה), (א.א, ב.א))
((א.ה, ב.ה), (א.א, ב.ב))
((א.ה, ב.ה), (א.א, ב.ה))
((א.ה, ב.ה), (א.ב, ב.א))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ה, ב.א))
((א.ה, ב.ה), (א.ה, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ה))
((א.ה, ב.ה), (א.א, ב.א))
((א.ה, ב.ה), (א.א, ב.ב))
((א.ה, ב.ה), (א.א, ב.ה))
((א.ה, ב.ה), (א.ב, ב.א))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ה, ב.א))
((א.ה, ב.ה), (א.ה, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ה))

([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . Γ) , (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ) , (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ) , (\perp . Γ , Γ . Γ])

$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$$
 $([\perp, \top], [\perp, \perp]), ([\perp, \perp], [\top, \perp])$ $([\perp . \top, \top . \perp], [\perp . \perp, \top . \top])$ $([\perp.\top, \top.\perp), (\perp.\perp, \top.\top))$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp . \top, \top . \perp], [\perp . \top, \top . \top])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
 $([\perp.\top, \top.\perp), (\perp.\top, \top.\top))$ $([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$ $([\perp, \top], [\perp, \top]), ([\perp, \perp], [\perp, \top])$ $([\perp, \top], [\perp, \perp]), ([\perp, \perp], [\top, \top])$ $([\perp, \top], [\top, \perp]), ([\perp, \perp], [\top, \top])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp.\top, \top.\perp]), ([\perp.\top, \top.\top])$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
 $([\perp, \top], [\perp, \top]), ([\perp, \top], [\perp, \top])$

(⌊.7, ⌈.⌈), ⌊.⌈, ⌈.⌈)
 (⌊.7, ⌈.⌈), ⌊.⌈, ⌈.7)
 (⌊.7, ⌈.⌈), ⌊.7, ⌈.⌋)
 (⌊.7, ⌈.⌈), ⌊.7, ⌈.⌈)
 (⌊.7, ⌈.⌈), ⌊.7, ⌈.7)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.7)
 (⌊.7, ⌈.7), ⌊.⌈, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.⌈, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.⌈, ⌈.7)
 (⌊.7, ⌈.7), ⌊.7, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.7, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.7)
 (⌊.7, ⌈.7), ⌊.⌈, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.⌈, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.7, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.7, ⌈.⌈)
 (⌊.7, ⌈.7), ⌊.7, ⌈.7)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌋)
 (⌊.7, ⌈.7), ⌊.⌋, ⌈.⌈)

$([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 1])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 1])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 7], [7, 7])$

$$\begin{aligned} & ([\perp . \bot , \top . \bot], (\perp . \bot , \top . \bot)) \\ & ([\perp . \bot , \top . \bot], (\perp . \bot , \top . \top)) \\ & ([\perp . \bot , \top . \bot], (\perp . \bot , \top . \neg)) \\ & ([\perp . \bot , \top . \bot], (\perp . \top , \top . \bot)) \\ & ([\perp . \bot , \top . \bot], (\perp . \top , \top . \top)) \\ & ([\perp . \bot , \top . \bot], (\perp . \top , \top . \neg)) \\ & ([\perp . \bot , \top . \bot], (\perp . \neg , \top . \bot)) \\ & ([\perp . \bot , \top . \bot], (\perp . \neg , \top . \top)) \\ & ([\perp . \bot , \top . \bot], (\perp . \neg , \top . \neg)) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \bot]) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \top]) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \neg]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \bot]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \top]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \neg]) \\ & ([\perp . \bot , \top . \bot], [\bot . \neg , \top . \bot]) \\ & ([\perp . \bot , \top . \bot], [\bot . \neg , \top . \top]) \\ & ([\perp . \bot , \top . \bot], [\bot . \neg , \top . \neg]) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \bot]) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \top]) \\ & ([\perp . \bot , \top . \bot], [\bot . \bot , \top . \neg]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \bot]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \top]) \\ & ([\perp . \bot , \top . \bot], [\bot . \top , \top . \neg]) \\ & ([\perp . \bot , \top . \bot], [\bot . \neg , \top . \bot]) \end{aligned}$$

([\perp . \top , \top . \perp], [\perp . \neg , \top . \neg])
 ([\perp . \top , \top . \perp], [\perp . \perp , \top . \perp])
 ([\perp . \top , \top . \perp], [\perp . \perp , \top . \top])
 ([\perp . \top , \top . \perp], [\perp . \perp , \top . \neg])
 ([\perp . \top , \top . \perp], [\perp . \top , \top . \perp])
 ([\perp . \top , \top . \perp], [\perp . \top , \top . \top])
 ([\perp . \top , \top . \perp], [\perp . \top , \top . \neg])
 ([\perp . \top , \top . \perp], [\perp . \neg , \top . \perp])
 ([\perp . \top , \top . \perp], [\perp . \neg , \top . \top])
 ([\perp . \top , \top . \perp], [\perp . \neg , \top . \neg])
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \perp))
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \top))
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \neg))
 ([\perp . \top , \top . \top], (\perp . \top , \top . \perp))
 ([\perp . \top , \top . \top], (\perp . \top , \top . \top))
 ([\perp . \top , \top . \top], (\perp . \top , \top . \neg))
 ([\perp . \top , \top . \top], (\perp . \neg , \top . \perp))
 ([\perp . \top , \top . \top], (\perp . \neg , \top . \top))
 ([\perp . \top , \top . \top], (\perp . \neg , \top . \neg))
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \perp])
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \top])
 ([\perp . \top , \top . \top], (\perp . \perp , \top . \neg])
 ([\perp . \top , \top . \top], (\perp . \top , \top . \perp])
 ([\perp . \top , \top . \top], (\perp . \top , \top . \top])
 ([\perp . \top , \top . \top], (\perp . \top , \top . \neg])

([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp]))
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . Γ]))
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \neg]))
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \perp]))
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . Γ]))
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \neg]))
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp]))
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . Γ]))
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg]))
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \perp]))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ]))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg]))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp]))

([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ])

([\perp . Γ , Γ . \neg], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \neg], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg], [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \neg], [\perp . \neg , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . \neg))
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . Γ))
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . \neg))
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . Γ])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . Γ])
([\perp . \neg , Γ . \neg], (\perp . Γ , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . Γ])
([\perp . \neg , Γ . \neg], (\perp . \neg , Γ . \neg])

$([1, 7], [1, 2], [1, 2], [1, 2])$
 $([1, 7], [1, 2], [1, 2], [1, 7])$
 $([1, 7], [1, 2], [1, 2], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 2])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 2])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 2], [1, 2])$
 $([1, 7], [1, 2], [1, 2], [1, 7])$
 $([1, 7], [1, 2], [1, 2], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 2])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 2])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 2], [1, 7], [1, 7])$
 $([1, 7], [1, 7], [1, 2], [1, 2])$
 $([1, 7], [1, 7], [1, 2], [1, 7])$
 $([1, 7], [1, 7], [1, 2], [1, 7])$
 $([1, 7], [1, 7], [1, 7], [1, 2])$
 $([1, 7], [1, 7], [1, 7], [1, 7])$
 $([1, 7], [1, 7], [1, 7], [1, 7])$
 $([1, 7], [1, 7], [1, 7], [1, 7])$
 $([1, 7], [1, 7], [1, 7], [1, 2])$

[illegible]

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

$([1.7, 7.7], [1.7, 7.7])$

5. $\Gamma 5. ([1.7, 7.7], [1.7, 7.7])$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$(([1.7, 7.7], [1.7, 7.7]), ([1.7, 7.7], [1.7, 7.7]))$

$((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
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 $((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top), (\perp.\perp, \top.\top))$
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 $((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top), (\perp.\top, \top.\top))$
 $((\perp.\top, \top.\perp), (\perp.\perp, \top.\perp))$

$((\perp . \Gamma, \Gamma.\perp), (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), (\perp.\neg, \Gamma.\neg))$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\Gamma))$

((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
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((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.⌊))
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((⌊.Γ,Γ.Γ), (⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.⌊))
((⌊.Γ,Γ.Γ), (⌊.⌊,Γ.Γ))

$((\perp, \top, \top), [\perp, \perp, \top])$
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 $((\perp, \top, \perp), (\perp, \top, \top))$

[illegible]

((\perp , \top), (\perp , \top))
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 ((\perp , \top), (\perp , \top))

$((\perp.\top, \top.\top), [\perp.\perp, \top.\top])$
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 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], (\perp.\top, \top.\top))$

[illegible]

$((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma))$

((א.ה, ב.ב), [א.ב, ב.ה])
((א.ה, ב.ב), [א.ה, ב.ב])
((א.ה, ב.ב), [א.ה, ב.ב])
((א.ה, ב.ב), [א.ה, ב.ה])
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ה))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ב))
((א.ה, ב.ה), (א.ב, ב.ה))
((א.ה, ב.ה), (א.ה, ב.ב))
((א.ה, ב.ה), (א.ה, ב.ה))
((א.ה, ב.ה), [א.ב, ב.ב])
((א.ה, ב.ה), [א.ב, ב.ב])
((א.ה, ב.ה), [א.ב, ב.ה])

([\perp . Γ , Γ . \perp) , [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \perp) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ) , ([\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ) , ([\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ) , ([\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . Γ) , ([\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ) , ([\perp . \neg , Γ . \neg])

([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.1, 7.1])
([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.1, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.7])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.1])
([1.7, 7.7], [1.7, 7.7])

$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor, (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$
$$([\perp.\perp], [\top.\top], ([\perp.\top], [\top.\top]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp.\perp], [\top.\top], ([\perp.\perp], [\top.\perp]))$$
$$([\perp, \cdot], [\cdot, \top], [\perp, \cdot], [\cdot, \top])$$
 $([\perp, \cdot], [\cdot, \top], ([\perp, \cdot], [\cdot, \top]))$ $([\perp, \cdot], [\cdot, \top], ([\perp, \cdot], [\cdot, \top]))$
$$([\perp.\perp], [\top.\top]), ([\perp.\top], [\top.\top])$$
 $([\perp, \cdot], [\cdot, \top], [\perp, \top, \cdot])$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp])$$
 $([\perp, \cdot], [\cdot, \top], [\perp, \neg], [\cdot, \neg])$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\top])$$
$$([\perp \cdot \perp, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp]))$$
$$([\perp \cdot \perp, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top))$$
$$([\perp \cdot \perp, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top]))$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp]))$$
$$([\perp \cdot \perp, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp])$$
$$([\perp.\perp, \top.\top], [\perp.\top, \top.\perp]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$

$$\begin{aligned}
& ([\perp, \perp], [\perp, \top], (\perp, \top, \perp, \top)) \\
& ([\perp, \perp], [\perp, \top], (\perp, \top, \perp, \top)) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \perp], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \top) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \perp) \\
& ([\perp, \perp], [\perp, \top], [\perp, \top], \top) \\
& ([\perp, \top], [\perp, \perp], (\perp, \perp], \perp) \\
& ([\perp, \top], [\perp, \perp], (\perp, \perp], \top) \\
& ([\perp, \top], [\perp, \perp], (\perp, \top], \perp) \\
& ([\perp, \top], [\perp, \perp], (\perp, \top], \top) \\
& ([\perp, \top], [\perp, \perp], (\perp, \top], \perp) \\
& ([\perp, \top], [\perp, \perp], (\perp, \top], \top)
\end{aligned}$$

([⊥ . Γ , Γ . ⊥] , (⊥ . Γ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊥))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊥ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊥ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , (⊥ . Γ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , (⊥ . Γ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . Γ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , (⊥ . ⊔ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , [⊥ . Γ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊔ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊔ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊔ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊔ , Γ . ⊔])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊥])
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊔))
([⊥ . Γ , Γ . ⊥] , [⊥ . ⊥ , Γ . ⊔])

$([\perp, \Gamma, \Gamma.\perp], [\perp, \Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp, \Gamma, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp, \Gamma, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\perp, \Gamma.\perp))$
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 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\Gamma, \Gamma.\perp))$
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 $([\perp, \Gamma, \Gamma.\Gamma], (\perp.\neg, \Gamma.\neg))$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\perp])$

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5. $\Gamma 6. ([1.7], [1.7], [1.7], [1.7])$

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((א.ה, פ.פ), (א.א, פ.ה))
((א.ה, פ.פ), (א.פ, פ.א))
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((א.ה, פ.פ), (א.פ, פ.ה))
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((א.ה, פ.פ), [א.א, פ.פ])
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((א.ה, פ.פ), [א.ה, פ.פ])
((א.ה, פ.פ), [א.ה, פ.ה])

$$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
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$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
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$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
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$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
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$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\bot, \top.\top))$$
$$((\perp.\top, \top.\top), [\perp.\perp, \top.\top))$$
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 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \perp, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \Gamma, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \perp])$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \Gamma])$
 $((\perp . \Gamma, \Gamma . \Pi, [\perp . \neg, \Gamma . \neg])$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \perp, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \perp, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \perp, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \Gamma, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \Gamma, \Gamma . \Gamma))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \Gamma, \Gamma . \neg))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \neg, \Gamma . \perp))$
 $((\perp . \Gamma, \Gamma . \neg], (\perp . \neg, \Gamma . \Gamma))$

[illegible]

([\perp].[\perp],[\top .[\top]), [\perp].[\perp],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top].[\perp]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top].[\perp]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), [\perp .[\top],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\perp],[\top].[\perp]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\perp],[\top .[\top]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\perp],[\top .[\top]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top].[\perp]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top .[\top]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top .[\top]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top].[\perp]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top .[\top]))
([\perp].[\perp],[\top .[\top]), ([\perp].[\perp],[\top].[\perp]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\perp],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top].[\perp]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top .[\top]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top].[\perp]])
([\perp].[\perp],[\top .[\top]), ([\perp].[\top],[\top .[\top]])

$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
$$([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$$
$$([\perp, \top, \top, \perp]), [\perp, \top, \top, \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \rceil \cdot \rceil), (\lceil \cdot \rfloor, \rceil \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \bot])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\sqcup \cdot \sqcap, \sqcap \cdot \sqcap), [\sqcup \cdot \sqcup, \sqcap \cdot \sqcup))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\sqcup, \sqcap, \sqcap, \sqcap], [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp]))$$

$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \top))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
 $([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$ $([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp])$
$$([\perp \cdot \Gamma, \Gamma \cdot \Gamma), [\perp \cdot \Gamma, \Gamma \cdot \Gamma])$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil]$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \top])$$
$$([\sqcup, \sqcap, \sqcup, \sqcap], [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor)$$
 $([\perp] \cdot \top, \top \cdot \top), ([\perp] \cdot \bot, \top \cdot \perp)$

$$([\perp, \top], [\top, \top]), ([\perp, \perp], [\top, \top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
 $([\perp, \top], [\perp, \top]), ([\perp, \top], [\top, \perp])$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
 $([\perp, \top], [\perp, \top]), ([\perp, \top], [\perp, \top])$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp]))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp.\top, \top.\top), [\perp.\perp, \top.\top))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \perp]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \top, \top \cdot \top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top, \top.\top], [\perp.\perp, \top.\top])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil]$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), \lfloor \cdot \rfloor, \lceil \cdot \rceil$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil), \lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil, \lceil \cdot \rceil)$$

[illegible]

$([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 1], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 1])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 7], [7, 7]), [1, 7], [7, 7])$
 $([1, 1], [7, 1]), ([1, 1], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 1], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 1], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 1], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 1], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 1], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 7]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 1]))$
 $([1, 1], [7, 1]), ([1, 7], [7, 7]))$

$([\perp]_-, \top_-), ([\perp]_+, \top_+)$
 $([\perp]_-, \top_-), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_-, \top_+))$
 $([\perp]_-, \top_-), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_+))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_+))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_-, \top_+))$
 $([\perp]_-, \top_-), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_+))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_-), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_+), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_+), ([\perp]_-, \top_+))$
 $([\perp]_-, \top_+), ([\perp]_-, \top_-))$
 $([\perp]_-, \top_+), ([\perp]_+, \top_-))$
 $([\perp]_-, \top_+), ([\perp]_+, \top_+))$
 $([\perp]_-, \top_+), ([\perp]_+, \top_-))$

$([1, 1], [1, 1], [1, 1], [1, 1])$
 $([1, 1], [1, 1], [1, 1], [1, 2])$
 $([1, 1], [1, 1], [1, 2], [1, 1])$
 $([1, 1], [1, 1], [1, 2], [1, 2])$
 $([1, 1], [1, 1], [1, 2], [2, 1])$
 $([1, 1], [1, 2], [1, 1], [1, 1])$
 $([1, 1], [1, 2], [1, 1], [1, 2])$
 $([1, 1], [1, 2], [1, 1], [2, 1])$
 $([1, 1], [1, 2], [1, 1], [2, 2])$
 $([1, 1], [1, 2], [1, 2], [1, 1])$
 $([1, 1], [1, 2], [1, 2], [1, 2])$
 $([1, 1], [1, 2], [1, 2], [2, 1])$
 $([1, 1], [1, 2], [1, 2], [2, 2])$
 $([1, 1], [1, 2], [2, 1], [1, 1])$
 $([1, 1], [1, 2], [2, 1], [1, 2])$
 $([1, 1], [1, 2], [2, 1], [2, 1])$
 $([1, 1], [1, 2], [2, 1], [2, 2])$
 $([1, 1], [1, 2], [2, 2], [1, 1])$
 $([1, 1], [1, 2], [2, 2], [1, 2])$
 $([1, 1], [1, 2], [2, 2], [2, 1])$
 $([1, 1], [1, 2], [2, 2], [2, 2])$
 $([1, 1], [2, 1], [1, 1], [1, 1])$
 $([1, 1], [2, 1], [1, 1], [1, 2])$
 $([1, 1], [2, 1], [1, 1], [2, 1])$
 $([1, 1], [2, 1], [1, 1], [2, 2])$
 $([1, 1], [2, 1], [1, 2], [1, 1])$
 $([1, 1], [2, 1], [1, 2], [1, 2])$
 $([1, 1], [2, 1], [1, 2], [2, 1])$
 $([1, 1], [2, 1], [1, 2], [2, 2])$
 $([1, 1], [2, 1], [2, 1], [1, 1])$
 $([1, 1], [2, 1], [2, 1], [1, 2])$
 $([1, 1], [2, 1], [2, 1], [2, 1])$
 $([1, 1], [2, 1], [2, 1], [2, 2])$
 $([1, 1], [2, 1], [2, 2], [1, 1])$
 $([1, 1], [2, 1], [2, 2], [1, 2])$
 $([1, 1], [2, 1], [2, 2], [2, 1])$
 $([1, 1], [2, 1], [2, 2], [2, 2])$
 $([1, 1], [2, 2], [1, 1], [1, 1])$
 $([1, 1], [2, 2], [1, 1], [1, 2])$
 $([1, 1], [2, 2], [1, 1], [2, 1])$
 $([1, 1], [2, 2], [1, 1], [2, 2])$
 $([1, 1], [2, 2], [1, 2], [1, 1])$
 $([1, 1], [2, 2], [1, 2], [1, 2])$
 $([1, 1], [2, 2], [1, 2], [2, 1])$
 $([1, 1], [2, 2], [1, 2], [2, 2])$
 $([1, 1], [2, 2], [2, 1], [1, 1])$
 $([1, 1], [2, 2], [2, 1], [1, 2])$
 $([1, 1], [2, 2], [2, 1], [2, 1])$
 $([1, 1], [2, 2], [2, 1], [2, 2])$
 $([1, 1], [2, 2], [2, 2], [1, 1])$
 $([1, 1], [2, 2], [2, 2], [1, 2])$
 $([1, 1], [2, 2], [2, 2], [2, 1])$
 $([1, 1], [2, 2], [2, 2], [2, 2])$

$([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \perp, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$
 $([\perp, \top, \top], [\perp, \top, \top])$

[illegible]

[illegible]

[illegible]

$([1.7], [1.7], [1.1], [1.7])$

$([1.7], [1.7], [1.7], [1.1])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.1])$

$([1.7], [1.7], [1.7], [1.7])$

$([1.7], [1.7], [1.7], [1.7])$

5. 7. $([1.1], [1.1], [1.7], [1.7])$

$(([1.1], [1.1]), ([1.1], [1.1]))$

$(([1.1], [1.1]), ([1.1], [1.7]))$

$(([1.1], [1.1]), ([1.1], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.1]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.1]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.1], [1.1]))$

$(([1.1], [1.1]), ([1.1], [1.7]))$

$(([1.1], [1.1]), ([1.1], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.1]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$(([1.1], [1.1]), ([1.7], [1.1]))$

$(([1.1], [1.1]), ([1.7], [1.7]))$

$((\perp . \perp , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \top))$

$((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp), [\perp.\neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\neg), (\perp.\neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\neg), [\perp.\perp, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\neg), [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), [\perp.\perp, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\neg), [\perp.\Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\neg), [\perp.\Gamma, \Gamma.\neg])$

$((\perp.\perp, \top.\perp], (\perp.\top, \top.\top])$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp], [\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$

$((\perp, \perp, \top, \top), (\perp, \perp, \top, \top))$
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$((\perp . \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
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[illegible]

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 $([2, 1, 1], [2, 2, 2])$

[illegible]

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$
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 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\perp])$
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 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\top, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$
 $([\perp.\perp, \top.\perp], [\perp.\perp, \top.\top])$

$([\perp . \perp , \top . \perp], [\perp . \top , \top . \perp])$
 $([\perp . \perp , \top . \perp], [\perp . \top , \top . \top])$
 $([\perp . \perp , \top . \perp], [\perp . \top , \top . \bot])$
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 $([\perp . \perp , \top . \perp], [\perp . \bot , \top . \top])$
 $([\perp . \perp , \top . \perp], [\perp . \bot , \top . \bot])$
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 $([\perp . \perp , \top . \perp], [\perp . \perp , \top . \top])$
 $([\perp . \perp , \top . \perp], [\perp . \perp , \top . \bot])$
 $([\perp . \perp , \top . \perp], [\perp . \top , \top . \perp])$
 $([\perp . \perp , \top . \perp], [\perp . \top , \top . \top])$
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 $([\perp . \perp , \top . \perp], [\perp . \bot , \top . \top])$
 $([\perp . \perp , \top . \perp], [\perp . \bot , \top . \bot])$
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 $([\perp . \perp , \top . \top], (\perp . \perp , \top . \top))$
 $([\perp . \perp , \top . \top], (\perp . \perp , \top . \bot))$
 $([\perp . \perp , \top . \top], (\perp . \top , \top . \perp))$
 $([\perp . \perp , \top . \top], (\perp . \top , \top . \top))$
 $([\perp . \perp , \top . \top], (\perp . \top , \top . \bot))$
 $([\perp . \perp , \top . \top], (\perp . \bot , \top . \perp))$
 $([\perp . \perp , \top . \top], (\perp . \bot , \top . \top))$
 $([\perp . \perp , \top . \top], (\perp . \bot , \top . \bot))$
 $([\perp . \perp , \top . \top], (\perp . \perp , \top . \perp])$

[illegible]

$(\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\Gamma)$
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 $(\perp . \Gamma, \Gamma.\perp], (\perp . \neg, \Gamma.\neg)$
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 $(\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\Gamma))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\neg))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg))$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma))$
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 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma)]$
 $(\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg)]$
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 $(\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma))$

([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \perp])
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([\perp . Γ , Γ . Γ], [\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . Γ], [\perp . \neg , Γ . \neg])
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([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . Γ])
([\perp . Γ , Γ . \neg], (\perp . \perp , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \neg], (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg], (\perp . \neg , Γ . \perp])

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 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 2]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 2]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 2]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 7], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 2]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$
 $([1, 7], [1, 2], ([1, 2], [1, 7]))$

[illegible]

[illegible]

$([\perp.\top, \top.\top], [\perp.\top, \top.\perp])$

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$

$([\perp.\top, \top.\top], [\perp.\top, \top.\top])$

5. $\top 8. ([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp])$

$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

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$(([\perp.\perp, \top.\perp], [\perp.\perp, \top.\perp]))$

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$((\perp . \Gamma, \Gamma.\perp), (\perp . \Gamma, \Gamma.\Gamma))$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\perp, \Gamma.\perp])$
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 $((\perp . \Gamma, \Gamma.\perp), [\perp.\Gamma, \Gamma.\perp])$
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 $((\perp . \Gamma, \Gamma.\Gamma), (\perp.\perp, \Gamma.\Gamma))$

$((\perp.\perp, \top.\perp], [\perp.\top, \top.\perp))$
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 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\top], (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\top], (\perp.\perp, \top.\perp])$

$((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], (\perp . \neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \perp, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg))$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \Gamma, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\perp])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\Gamma])$
 $((\perp . \Gamma, \Gamma.\perp], [\perp . \neg, \Gamma.\neg])$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\perp))$
 $((\perp . \Gamma, \Gamma.\Gamma], (\perp . \perp, \Gamma.\Gamma))$

((⌊.Γ,Γ.Π,⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.Π,⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.Π,⌊.⌋,Γ.⌈))
((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.Π,⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.Π,⌊.Γ,Γ.⌈))
((⌊.Γ,Γ.Π,⌊.⌈,Γ.⌋))
((⌊.Γ,Γ.Π,⌊.⌈,Γ.Γ))
((⌊.Γ,Γ.Π,⌊.⌈,Γ.⌈))
((⌊.Γ,Γ.⌈,⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.⌈,⌊.⌋,Γ.Γ))
((⌊.Γ,Γ.⌈,⌊.⌋,Γ.⌈))
((⌊.Γ,Γ.⌈,⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.⌈,⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.⌈,⌊.Γ,Γ.⌈))
((⌊.Γ,Γ.⌈,⌊.⌈,Γ.⌋))
((⌊.Γ,Γ.⌈,⌊.⌈,Γ.Γ))
((⌊.Γ,Γ.⌈,⌊.⌈,Γ.⌈))
((⌊.Γ,Γ.⌈,⌊.⌋,Γ.⌋))
((⌊.Γ,Γ.⌈,⌊.⌋,Γ.Γ))
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((⌊.Γ,Γ.⌈,⌊.Γ,Γ.⌋))
((⌊.Γ,Γ.⌈,⌊.Γ,Γ.Γ))
((⌊.Γ,Γ.⌈,⌊.Γ,Γ.⌈))
((⌊.Γ,Γ.⌈,⌊.⌈,Γ.⌋))

[illegible]

((א.ה , א.ה],(א.ה , א.ה))
((א.ה , א.ה],(א.א , א.א))
((א.ה , א.ה],(א.א , א.א))
((א.ה , א.ה],(א.א , א.ה))
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((א.ה , א.ה],[א.ה , א.ה))
((א.ה , א.ה],[א.א , א.א))
((א.ה , א.ה],[א.א , א.א))
((א.ה , א.ה],[א.א , א.ה))
((א.ה , א.ה],[א.א , א.א))
((א.ה , א.ה],[א.א , א.ה))

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 $((\perp.\top, \top.\top), (\perp.\top, \top.\top))$
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 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
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 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\perp))$
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 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\top))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\perp))$
 $((\perp.\perp, \top.\perp), (\perp.\perp, \top.\top))$
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 $((\perp.\perp, \top.\perp), (\perp.\top, \top.\perp))$

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 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
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 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\Gamma, \Gamma.\Gamma])$
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 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\neg, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\perp], [\perp.\perp, \Gamma.\Gamma])$
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 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\Gamma])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\perp, \Gamma.\neg])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\perp])$
 $([\perp, \Gamma, \Gamma.\Gamma], [\perp.\Gamma, \Gamma.\Gamma])$

([\perp . Γ , Γ . Γ), [\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . Γ), [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . Γ), [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . Γ), [\perp . \neg , Γ . \perp])
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([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . \perp])
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \neg), (\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . \perp])
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \neg), (\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg), (\perp . \perp , Γ . \perp))

([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . \neg))
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . Γ))
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . Γ))
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . Γ])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . Γ])
([\perp . Γ , Γ . \neg) , [\perp . Γ , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . \neg])
([\perp . Γ , Γ . \neg) , [\perp . \neg , Γ . Γ])
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([\perp . \neg , Γ . \neg] , (\perp . \neg , Γ . Γ))
([\perp . \neg , Γ . \neg] , (\perp . \neg , Γ . \neg))
([\perp . \neg , Γ . \neg] , (\perp . Γ , Γ . \neg))
([\perp . \neg , Γ . \neg] , (\perp . Γ , Γ . Γ))
([\perp . \neg , Γ . \neg] , (\perp . Γ , Γ . \neg))
([\perp . \neg , Γ . \neg] , (\perp . \neg , Γ . \neg))
([\perp . \neg , Γ . \neg] , (\perp . \neg , Γ . Γ))

[illegible]

[illegible]

[illegible]

$([a, b], [c, d])$

$([a, b], [c, e])$

$([a, b], [c, f])$

$([a, b], [d, e])$

$([a, b], [d, f])$

$([a, b], [e, f])$

$([a, b], [c, d, e])$

$([a, b], [c, d, f])$

$([a, b], [c, e, f])$

$([a, b], [d, e, f])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, f, e])$

$([a, b], [c, e, f, d])$

$([a, b], [d, e, f, c])$

$([a, b], [d, c, f, e])$

$([a, b], [e, f, d, c])$

$([a, b], [e, c, f, d])$

$([a, b], [f, d, e, c])$

$([a, b], [f, c, e, d])$

$([a, b], [f, d, e, c])$

$([a, b], [f, c, e, d])$

$([a, b], [c, d, e, f])$

$([a, b], [c, d, f, e])$

$([a, b], [c, e, f, d])$

5.19. $([a, c], [b, d], [e, f])$

$((\perp . \perp , \top . \perp), [\perp . \top , \top . \top])$
 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \top])$
 $((\perp . \perp , \top . \perp), [\perp . \perp , \top . \perp])$
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 $((\perp . \perp , \top . \perp), [\perp . \top , \top . \perp])$
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 $((\perp . \perp , \top . \top), (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \perp))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \perp , \top . \top))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \perp))$
 $((\perp . \perp , \top . \top), (\perp . \top , \top . \top))$

$((\perp . \perp , \top . \top), [\perp . \perp , \top . \top])$
 $((\perp . \perp , \top . \top), [\perp . \perp , \top . \top])$
 $((\perp . \perp , \top . \top), [\perp . \top , \top . \perp])$
 $((\perp . \perp , \top . \top), [\perp . \top , \top . \top])$
 $((\perp . \perp , \top . \top), [\perp . \top , \top . \top])$
 $((\perp . \perp , \top . \top), [\perp . \top , \top . \perp])$
 $((\perp . \perp , \top . \top), [\perp . \top , \top . \top])$
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 $((\perp . \top , \top . \perp), (\perp . \top , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \perp , \top . \perp))$
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 $((\perp . \top , \top . \perp), (\perp . \top , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \perp))$
 $((\perp . \top , \top . \perp), (\perp . \top , \top . \top))$

$$((\perp \cdot \top, \top \cdot \top), (\perp \cdot \bot, \top \cdot \perp))$$
$$((\perp, \top, \top, \top), (\perp, \top, \top, \top))$$
$$((\perp.\top, \top.\top), (\perp.\bot, \top.\bot))$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), (\sqcup, \sqcap, \sqcup, \sqcap))$$
$$((\sqcup, \sqcap, \sqcap, \sqcap), (\sqcup, \sqcup, \sqcap, \sqcap))$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), (\sqcup, \sqcap, \sqcup, \sqcap))$$
$$((\sqcup \cdot \sqsupset, \sqsupset \cdot \sqsupset), (\sqcup \cdot \sqsupset, \sqsupset \cdot \sqcup])$$
$$((\perp \cdot \top, \top \cdot \top), (\perp \cdot \top, \top \cdot \top])$$
$$((\perp \cdot \top, \top \cdot \top), (\perp \cdot \top, \top \cdot \top])$$
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$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcap), (\sqcup \cdot \sqcap, \sqcap \cdot \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup \cdot \sqsupset, \sqsupset \cdot \sqsupset), [\sqcup \cdot \sqsupset, \sqsupset \cdot \sqcup])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup))$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup, \sqcap, \sqcap, \sqcap), [\sqcup, \sqcap, \sqcap, \sqcap])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$
$$((\sqcup, \sqcap, \sqcap, \sqcap), [\sqcup, \sqcup, \sqcap, \sqcup])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcap, \sqcap), [\sqcup, \sqcup, \sqcap, \sqcap])$$
$$((\sqcup \cdot \sqcap, \sqcap \cdot \sqcup), [\sqcup \cdot \sqcap, \sqcap \cdot \sqcup])$$

$$((\sqcup.\top, \top.\sqcup), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcap))$$
$$((\lceil \cdot \rceil, \lceil \cdot \rceil), [\lceil \cdot \rceil, \lceil \cdot \rceil])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
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$$((\sqcup, \sqcap, \sqcup, \sqcap), [\sqcup, \sqcap, \sqcup, \sqcap])$$
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$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcup])$$
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$$((\sqcup.\top, \top.\sqcap), [\sqcup.\top, \top.\sqcap])$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top))$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$$

$$((\perp.\top, \top.\top), (\perp.\perp, \top.\top])$$
$$((\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\perp])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
$$((\perp.\top, \top.\top), (\perp.\top, \top.\top])$$
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$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top))$$
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$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top))$$
$$((\perp.\top, \top.\top), [\perp.\top, \top.\top))$$
$$((\sqcup \cdot \top, \sqcap \cdot \top), [\sqcup \cdot \bot, \sqcap \cdot \bot])$$
$$((\sqcup.\top, \sqcap.\top), [\sqcup.\bot, \sqcap.\sqcap])$$
$$((\sqcup.\top, \sqcap.\top), [\sqcup.\bot, \sqcap.\top])$$
$$((\sqcup.\top, \top.\sqcup), [\sqcup.\top, \top.\sqcup])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top])$$
$$((\sqcup.\top, \top.\top), [\sqcup.\top, \top.\top])$$
$$((\perp.\top, \top.\top), [\perp.\top, \top.\perp])$$
$$((\sqcup.\top, \sqcap.\top), [\sqcup.\top, \sqcap.\top])$$
$$((\perp.\top, \top.\top), [\perp.\top, \top.\top])$$

$$\begin{aligned}
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \bot)) \\
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \top)) \\
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \neg)) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \bot)) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \top)) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \neg)) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \bot)) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \top)) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \neg)) \\
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \bot]) \\
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \top]) \\
& ((\perp . \bot , \top . \bot], (\perp . \bot , \top . \neg]) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \bot]) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \top]) \\
& ((\perp . \bot , \top . \bot], (\perp . \top , \top . \neg]) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \bot]) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \top]) \\
& ((\perp . \bot , \top . \bot], (\perp . \neg , \top . \neg]) \\
& ((\perp . \bot , \top . \bot], [\perp . \bot , \top . \bot)) \\
& ((\perp . \bot , \top . \bot], [\perp . \bot , \top . \top)) \\
& ((\perp . \bot , \top . \bot], [\perp . \bot , \top . \neg)) \\
& ((\perp . \bot , \top . \bot], [\perp . \top , \top . \bot)) \\
& ((\perp . \bot , \top . \bot], [\perp . \top , \top . \top)) \\
& ((\perp . \bot , \top . \bot], [\perp . \top , \top . \neg)) \\
& ((\perp . \bot , \top . \bot], [\perp . \neg , \top . \bot))
\end{aligned}$$

$((\perp, \top, \top, \perp], (\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp))$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp))$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top))$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \perp, \top, \top])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$
 $((\perp, \top, \top, \perp], [\perp, \top, \top, \top])$

[illegible]

[illegible]

$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \perp, \top \cdot \perp]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \top], ([\perp \cdot \top, \top \cdot \perp]))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp, \top, \top, \top], ([\perp, \top, \top, \top]))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \bot, \top \cdot \perp])$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp]))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\llbracket \cdot \rrbracket, \vdash, \vdash), (\llbracket \cdot \rrbracket, \vdash, \vdash))$$
$$([\perp \cdot \top, \top \cdot \top), [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \Gamma, \Gamma \cdot \Gamma), [\perp \cdot \Gamma, \Gamma \cdot \Gamma))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, \lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$([\perp \cdot \top, \top \cdot \top], [\perp \cdot \perp, \top \cdot \perp])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \perp, \top, \top])$$
$$(\llbracket \cdot \rrbracket, \vdash, \vdash), (\llbracket \cdot \rrbracket, \vdash, \vdash)$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil, \lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$
$$([\perp, \top, \top, \top], [\perp, \top, \top, \top])$$

$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp.\top, \top.\perp]), ([\perp.\top, \top.\top])$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lfloor \cdot \rfloor, \lceil \cdot \rceil)$$
$$(\lceil \cdot \rceil, \lceil \cdot \rceil), (\lceil \cdot \rceil, \lceil \cdot \rceil)$$
$$([\perp.\top, \top.\perp]), ([\perp.\top, \top.\top])$$
$$([\perp.\top, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp), [\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp), [\perp.\top, \top.\perp))$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rceil, \lceil \cdot \rfloor))$$
$$([\perp.\top, \top.\perp), [\perp.\top, \top.\perp))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), (\lfloor \cdot \rfloor, \lceil \cdot \rceil))$$
 $([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$ $([\perp, \top], [\perp, \perp], [\top, \top])$ $([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\perp])$$
 $([\perp, \top, \top, \perp], [\perp, \top, \top, \perp])$ $([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$
$$(\lfloor \cdot \rfloor, \lceil \cdot \rceil), [\lfloor \cdot \rfloor, \lceil \cdot \rceil]$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), \lceil \cdot \rceil, \lfloor \cdot \rfloor$$
$$([\perp.\top, \top.\perp], [\perp.\top, \top.\top])$$
$$(\lceil \cdot \rceil, \lfloor \cdot \rfloor), (\lceil \cdot \rceil, \lfloor \cdot \rfloor))$$

([\perp], \perp , \top . \perp], [\perp . \perp , \top . \top])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \perp])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \top])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \top])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \perp])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \top])
([\perp]. \perp , \top . \perp], [\perp . \top , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \perp))
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \top))
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \top))
([\perp]. \perp , \top . \top], (\perp . \top , \top . \perp))
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top))
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top))
([\perp]. \perp , \top . \top], (\perp . \top , \top . \perp))
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top))
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \perp])
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \perp , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \perp])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \perp])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top])
([\perp]. \perp , \top . \top], (\perp . \top , \top . \top])

$([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \perp))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \perp])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \perp])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \perp)$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \Gamma)$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \perp], \Gamma, \neg)$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \perp])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \Gamma])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \Gamma, \Gamma, \neg])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \perp])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \Gamma])$
 $([\perp, \perp], \Gamma, \Gamma), [\perp, \neg, \Gamma, \neg])$
 $([\perp, \perp], \Gamma, \neg), (\perp, \perp], \Gamma, \perp))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \perp], \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \perp], \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \Gamma, \Gamma, \perp))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \Gamma, \Gamma, \Gamma))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \Gamma, \Gamma, \neg))$
 $([\perp, \perp], \Gamma, \neg), (\perp, \neg, \Gamma, \perp))$

$$([\perp.\perp], [\top.\top], [\perp.\top, \top.\top])$$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top], [\perp.\top], [\top.\perp])$$
$$([\perp.\perp], [\top.\top]), [\perp.\top], [\top.\top])$$
$$([\perp \cdot \top, \top \cdot \perp], (\perp \cdot \perp, \top \cdot \top))$$
$$([\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$([\perp.\top, \top.\perp], (\perp.\perp, \top.\top))$$
$$([\perp \cdot \top, \top \cdot \perp], (\perp \cdot \top, \top \cdot \perp))$$
$$([\perp \cdot \top, \top \cdot \perp], (\perp \cdot \top, \top \cdot \top))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\perp))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$([\perp.\top, \top.\perp], (\perp.\top, \top.\top))$$
$$([\perp, \top, \top, \perp], ([\perp, \perp], [\top, \perp]))$$
$$([\bot, \top, \top, \bot], (\bot, \bot, \top, \top))$$
$$([\perp, \top, \top, \perp], ([\perp, \perp], [\top, \top]))$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \top, \top \cdot \perp])$$
$$([\perp \cdot \top, \top \cdot \perp], (\perp \cdot \top, \top \cdot \top])$$
$$([\perp, \top, \top, \perp], ([\perp, \top, \top, \perp]))$$
$$([\perp, \top, \top.\perp], (\perp.\top, \top.\perp])$$
$$([\bot, \top, \top.\bot], (\bot.\top, \top.\top))$$
$$([\bot, \top, \top.\bot], (\bot.\top, \top.\top])$$
$$([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$$
$$([\perp \cdot \top, \top \cdot \perp], [\perp \cdot \perp, \top \cdot \top])$$
$$([\perp.\top, \top.\perp], [\perp.\perp, \top.\top])$$

([⊥ . Γ, Γ.⊥], [⊥ . Γ, Γ.⊥]))
([⊥ . Γ, Γ.⊥], [⊥ . Γ, Γ.Γ])
([⊥ . Γ, Γ.⊥], [⊥ . Γ, Γ.⊃])
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.⊥]))
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.Γ])
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.⊃])
([⊥ . Γ, Γ.⊥], [⊥.⊥, Γ.⊥])
([⊥ . Γ, Γ.⊥], [⊥.⊥, Γ.Γ])
([⊥ . Γ, Γ.⊥], [⊥.⊥, Γ.⊃])
([⊥ . Γ, Γ.⊥], [⊥.Γ, Γ.⊥])
([⊥ . Γ, Γ.⊥], [⊥.Γ, Γ.Γ])
([⊥ . Γ, Γ.⊥], [⊥.Γ, Γ.⊃])
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.⊥])
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.Γ])
([⊥ . Γ, Γ.⊥], [⊥.⊃, Γ.⊃])
([⊥ . Γ, Γ.Γ], ([⊥.⊥, Γ.⊥]))
([⊥ . Γ, Γ.Γ], ([⊥.⊥, Γ.Γ])
([⊥ . Γ, Γ.Γ], ([⊥.⊥, Γ.⊃])
([⊥ . Γ, Γ.Γ], ([⊥.Γ, Γ.⊥]))
([⊥ . Γ, Γ.Γ], ([⊥.Γ, Γ.Γ])
([⊥ . Γ, Γ.Γ], ([⊥.Γ, Γ.⊃])
([⊥ . Γ, Γ.Γ], ([⊥.⊃, Γ.⊥]))
([⊥ . Γ, Γ.Γ], ([⊥.⊃, Γ.Γ])
([⊥ . Γ, Γ.Γ], ([⊥.⊃, Γ.⊃])
([⊥ . Γ, Γ.Γ], ([⊥.⊥, Γ.⊥]))

[illegible]

[illegible]

[illegible]

