

$\wedge$  intro

$\rightarrow$  intro (makes assumption)

$\vee$  intro (preserving left)

$\vee$  intro (preserving right)

$\neg$  intro (makes assumption A)

$\forall$  intro (introduces variable)

$\exists$  intro (needs variable)

truth

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contra (classical; makes assumption  $\neg A$ )

contra (constructive)

$\neg$  elim (invents formulae)

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hyp