

Some examples from <http://scholar.princeton.edu/scuellar/blog/2014/03/deduction-trees-latex>

$$\frac{A \quad B}{C} \text{ d}$$

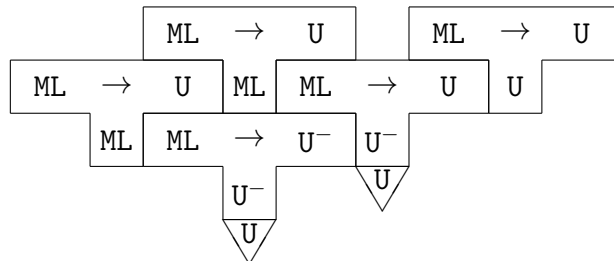
One of Demorgan's Law:

$$\frac{\frac{\frac{\frac{\phi \wedge \psi}{\phi} \quad 2}{\neg\phi \vee \neg\psi} \quad 1}{\perp} \quad \frac{\frac{\frac{\phi \wedge \psi}{\psi} \quad 2}{\neg\psi} \quad 1}{\perp}}{\perp}}{\neg(\phi \wedge \psi)} \quad 2$$

Example from the `semantic` package documentation: For the case where every expression is to be evaluated in an environment giving a value, and you would like to set all the environment's values in mathematics and the expressions in typewriter font:

$$\text{TIR} \frac{D \vdash s \xrightarrow{v}_S s' \quad D \vdash s \xrightarrow{v'}_S s''}{D \vdash \text{Tl}(s) \xrightarrow{v'}_S s''}$$

Example of a T-diagram from the package documentation:



See the documentation at <http://texdoc.net/pkg/semantic> for more information.