

Dedução natural para a lógica proposicional (Fitch)

	Introdução	Eliminação
$\wedge$	$ \begin{array}{ l} \phi \\ \vdots \\ \psi \\ \vdots \\ \hline \phi \wedge \psi \quad \wedge\text{I} \end{array} $	$ \begin{array}{ l} \vdots \\ \phi \wedge \psi \\ \vdots \\ \hline \phi \quad \wedge\text{E} \end{array} \quad \begin{array}{ l} \vdots \\ \phi \wedge \psi \\ \vdots \\ \hline \psi \quad \wedge\text{E} \end{array} $
$\vee$	$ \begin{array}{ l} \vdots \\ \phi \\ \vdots \\ \hline \phi \vee \psi \quad \vee\text{I} \end{array} \quad \begin{array}{ l} \vdots \\ \phi \\ \vdots \\ \hline \psi \vee \phi \quad \vee\text{I} \end{array} $	$ \begin{array}{ l} \phi \vee \psi \\ \vdots \\ \hline \begin{array}{ l} \phi \\ \vdots \\ \gamma \\ \hline \psi \\ \vdots \\ \gamma \end{array} \\ \hline \gamma \quad \vee\text{E} \end{array} $
$\neg$	$ \begin{array}{ l} \begin{array}{ l} \phi \\ \vdots \\ \hline \textbf{F} \end{array} \\ \hline \neg\phi \quad \neg\text{I} \end{array} $	$ \begin{array}{ l} \vdots \\ \neg\neg\phi \\ \vdots \\ \hline \phi \quad \neg\text{E} \end{array} $
F	$ \begin{array}{ l} \phi \\ \vdots \\ \neg\phi \\ \vdots \\ \hline \textbf{F} \quad \textbf{FI} \end{array} $	$ \begin{array}{ l} \vdots \\ \textbf{F} \\ \vdots \\ \hline \phi \quad \textbf{FE} \end{array} $
$\rightarrow$	$ \begin{array}{ l} \begin{array}{ l} \phi \\ \vdots \\ \psi \\ \hline \phi \rightarrow \psi \quad \rightarrow\text{I} \end{array} \end{array} $	$ \begin{array}{ l} \phi \\ \vdots \\ \phi \rightarrow \psi \\ \vdots \\ \hline \psi \quad \rightarrow\text{E} \end{array} $