The basic rules of natural deduction:

	introduction	*elimination*
$\wedge$	$\dfrac{\phi \quad \psi}{\phi \wedge \psi}\,\wedge\mathrm{i}$	$\dfrac{\phi \wedge \psi}{\phi}\,\wedge\mathrm{e}_1 \qquad \dfrac{\phi \wedge \psi}{\psi}\,\wedge\mathrm{e}_2$
$\vee$	$\dfrac{\phi}{\phi \vee \psi}\,\vee\mathrm{i}_1 \qquad \dfrac{\psi}{\phi \vee \psi}\,\vee\mathrm{i}_2$	$\dfrac{\phi \vee \psi \quad \begin{array}{c}\boxed{\phi}\\ \vdots \\ \chi\end{array} \quad \begin{array}{c}\boxed{\psi}\\ \vdots \\ \chi\end{array}}{\chi}\,\vee\mathrm{e}$
$\rightarrow$	$\dfrac{\begin{array}{c}\boxed{\phi}\\ \vdots \\ \psi\end{array}}{\phi \rightarrow \psi}\,\rightarrow\mathrm{i}$	$\dfrac{\phi \quad \phi \rightarrow \psi}{\psi}\,\rightarrow\mathrm{e}$
$\neg$	$\dfrac{\begin{array}{c}\boxed{\phi}\\ \vdots \\ \bot\end{array}}{\neg\phi}\,\neg\mathrm{i}$	$\dfrac{\phi \quad \neg\phi}{\bot}\,\neg\mathrm{e}$
$\bot$	(no introduction rule for $\bot$)	$\dfrac{\bot}{\phi}\,\bot\mathrm{e}$
$\neg\neg$		$\dfrac{\neg\neg\phi}{\phi}\,\neg\neg\mathrm{e}$

Some useful derived rules:

$$\frac{\phi \rightarrow \psi \quad \neg\psi}{\neg\phi}\,\mathrm{MT} \qquad \frac{\phi}{\neg\neg\phi}\,\neg\neg\mathrm{i}$$

$$\frac{\begin{array}{c}\boxed{\neg\phi}\\ \vdots \\ \bot\end{array}}{\phi}\,\mathrm{PBC} \qquad \frac{}{\phi \vee \neg\phi}\,\mathrm{LEM}$$

Figure 1.2. Natural deduction rules for propositional logic.