	introduction rule	elimination rule
$\wedge$	$\dfrac{\varphi \quad \psi}{\varphi \wedge \psi}\ \wedge\mathrm{I}$	$\dfrac{\varphi \wedge \psi}{\varphi}\ \wedge\mathrm{E1}$ $\quad$ $\dfrac{\varphi \wedge \psi}{\psi}\ \wedge\mathrm{E2}$
$\vee$	$\dfrac{\varphi}{\varphi \vee \psi}\ \vee\mathrm{I1}$ $\quad$ $\dfrac{\psi}{\varphi \vee \psi}\ \vee\mathrm{I2}$	$\dfrac{\varphi \vee \psi \quad \begin{matrix}[\varphi] \\ \vdots \\ \chi\end{matrix} \quad \begin{matrix}[\psi] \\ \vdots \\ \chi\end{matrix}}{\chi}\ \vee\mathrm{E}$
$\rightarrow$	$\dfrac{\begin{matrix}[\varphi] \\ \vdots \\ \psi\end{matrix}}{\varphi \rightarrow \psi}\ {\rightarrow}\mathrm{I}$	$\dfrac{\varphi \quad \varphi \rightarrow \psi}{\psi}\ {\rightarrow}\mathrm{E}$
$\neg$	$\dfrac{\begin{matrix}[\varphi] \\ \vdots \\ \bot\end{matrix}}{\neg\varphi}\ \neg\mathrm{I}$	$\dfrac{\varphi \quad \neg\varphi}{\bot}\ \neg\mathrm{E}$
$\forall$	$\dfrac{\varphi}{\forall x{:}\varphi}\ \forall\mathrm{I}$ if x does not occur free in any premises of this subtree	$\dfrac{\forall x{:}\varphi}{\varphi[t/x]}\ \forall\mathrm{E}$
$\exists$	$\dfrac{\varphi[t/x]}{\exists x{:}\varphi}\ \exists\mathrm{I}$	$\dfrac{\exists x{:}\varphi \quad \begin{matrix}[\varphi] \\ \vdots \\ \chi\end{matrix}}{\chi}\ \exists\mathrm{E}$ if x does not occur free in χ and in any premises of the right subtree accept φ
PBC	$\dfrac{\begin{matrix}[\neg\varphi] \\ \vdots \\ \bot\end{matrix}}{\varphi}\ \mathrm{PBC}$	