

# 规则集

Table 1: 规则表 (一)

简称	规则
prem	$\Gamma, A \vdash A$
premi	If $\Gamma \vdash B$ , then $\Gamma, A \vdash B$
preme	If $\Gamma, A \vdash B$ and $\Gamma, \neg A \vdash B$ , then $\Gamma \vdash B$
ti	$\Gamma \vdash T$
fi	$\Gamma \vdash \neg F$
ori	If $\Gamma \vdash A$ , then $\Gamma \vdash A \vee B, B \vee A$
ore	If $\Gamma, A \vdash C$ and $\Gamma, B \vdash C$ , then $\Gamma, A \vee B \vdash C$
andi	If $\Gamma \vdash A$ and $\Gamma \vdash B$ , then $\Gamma \vdash A \wedge B$
ande	If $\Gamma \vdash A \wedge B$ , then $\Gamma \vdash A, B$
impli	If $\Gamma, A \vdash B$ , then $\Gamma \vdash A \rightarrow B$
imple	If $\Gamma \vdash A$ and $\Gamma \vdash A \rightarrow B$ , then $\Gamma \vdash B$

Table 2: 规则表 (二)

简称	规则
ni	If $\Gamma, A \vdash B$ and $\Gamma, A \vdash \neg B$ , then $\Gamma \vdash \neg A$
ne	If $\Gamma \vdash B$ and $\Gamma \vdash \neg B$ , then $\Gamma \vdash A$
nni	If $\Gamma \vdash A$ , then $\Gamma \vdash \neg\neg A$
nne	If $\Gamma \vdash \neg\neg A$ , then $\Gamma \vdash A$
equiv	If $\Gamma, A \vdash B$ and $\Gamma, B \vdash A$ , then $\Gamma \vdash A \leftrightarrow B$
equi	If $\Gamma \vdash A \leftrightarrow B$ , then $\Gamma \vdash A \rightarrow B, B \rightarrow A$
implyToOr	If $\Gamma \vdash A \rightarrow B$ , then $\Gamma \vdash \neg A \vee B$
orToImPLY	If $\Gamma \vdash \neg A \vee B$ , then $\Gamma \vdash A \rightarrow B$
ds	If $\Gamma \vdash A$ and $\Gamma \vdash \neg A \vee B$ , then $\Gamma \vdash B$
morgani	If $\Gamma \vdash \neg(A \vee B)$ , then $\Gamma \vdash \neg A \wedge \neg B$ If $\Gamma \vdash \neg(A \wedge B)$ , then $\Gamma \vdash \neg A \vee \neg B$
morgane	If $\Gamma \vdash \neg A \wedge \neg B$ , then $\Gamma \vdash \neg(A \vee B)$ If $\Gamma \vdash \neg A \vee \neg B$ , then $\Gamma \vdash \neg(A \wedge B)$
contrapos	If $\Gamma \vdash A \rightarrow B$ , then $\Gamma \vdash \neg B \rightarrow \neg A$