

-NoValue-

tab.1 Propositional Rules

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sec

Rules for $\neg$

$$\frac{\mathbb{T} \neg \varphi}{\mathbb{F} \varphi} \neg \mathbb{T} \qquad \frac{\mathbb{F} \neg \varphi}{\mathbb{T} \varphi} \neg \mathbb{F}$$

Rules for $\wedge$

$$\frac{\mathbb{T} \varphi \wedge \psi}{\mathbb{T} \varphi} \wedge \mathbb{T} \qquad \frac{\mathbb{F} \varphi \wedge \psi}{\mathbb{F} \varphi \mid \mathbb{F} \psi} \wedge \mathbb{F}$$

Rules for $\vee$

$$\frac{\mathbb{T} \varphi \vee \psi}{\mathbb{T} \varphi \mid \mathbb{T} \psi} \vee \mathbb{T} \qquad \frac{\mathbb{F} \varphi \vee \psi}{\mathbb{F} \varphi} \vee \mathbb{F}$$

Rules for $\rightarrow$

$$\frac{\mathbb{T} \varphi \rightarrow \psi}{\mathbb{F} \varphi \mid \mathbb{T} \psi} \rightarrow \mathbb{T} \qquad \frac{\mathbb{F} \varphi \rightarrow \psi}{\mathbb{T} \varphi} \rightarrow \mathbb{F}$$

The Cut Rule

$$\frac{}{\mathbb{T} \varphi \mid \mathbb{F} \varphi} \text{Cut}$$

The Cut rule is not applied “to” a previous *fórmula assinada*; rather, it allows every branch in a *tableau* to be split in two, one branch containing $\mathbb{T} \varphi$, the other $\mathbb{F} \varphi$. It is not necessary—any set of *fórmulas assinadas* with a closed

`tableau` has one not using Cut—but it allows us to combine `tableaux` in a convenient way.

Créditos das Imagens

Referências Bibliográficas