-NoValue-

axd.1 Axioms and Rules for Quantifiers

fol:axd:qua:sec

Definição axd.1 (Axioms for quantifiers). The *axioms* governing quantifiers are all instances of the following:

fol:axd:qua:ax:q1
$$\forall x\, \psi \to \psi(t), \tag{1}$$

fol:axd:qua:ax:q2
$$\psi(t) \to \exists x\, \psi. \tag{2}$$

for any closed term t.

Definição axd.2 (Rules for quantifiers).

If $\psi \to \varphi(a)$ already occurs in the derivação and a does not occur in Γ or ψ, then $\psi \to \forall x\, \varphi(x)$ is a correct inference step.

If $\varphi(a) \to \psi$ already occurs in the derivação and a does not occur in Γ or ψ, then $\exists x\, \varphi(x) \to \psi$ is a correct inference step.

We'll abbreviate either of these by "QR."

Créditos das Imagens

Referências Bibliográficas