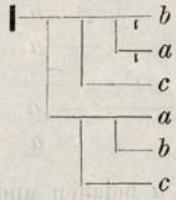


NEGAÇÃO, IDENTIDADE, QUANTIFICAÇÃO

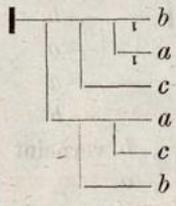
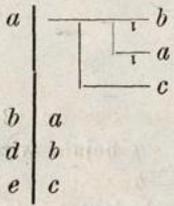


Axioma: prova EXTERNA (por absurdo ou por tabela de verdade).

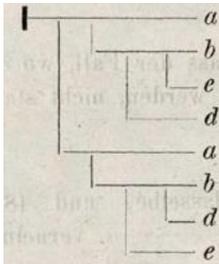
29



(10) :

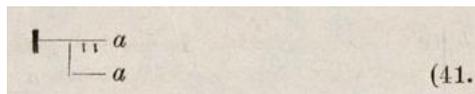


(30.

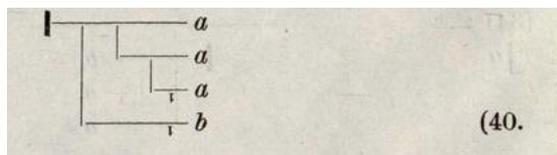
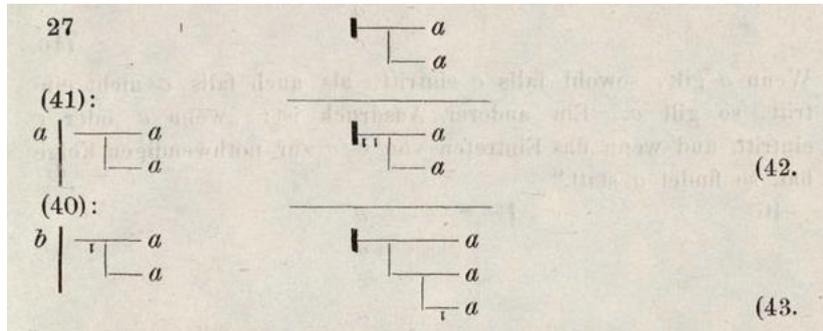


(10.

Novo axioma:



Introduzido AXIOMATICAMENTE (só tem uma "prova" externa, por redução ao absurdo ou por tabela de verdade).



LEIS RELATIVAS À IDENTIDADE DE CONTEÚDO

Axioma:

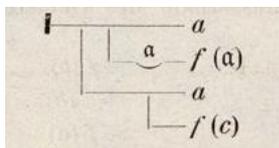
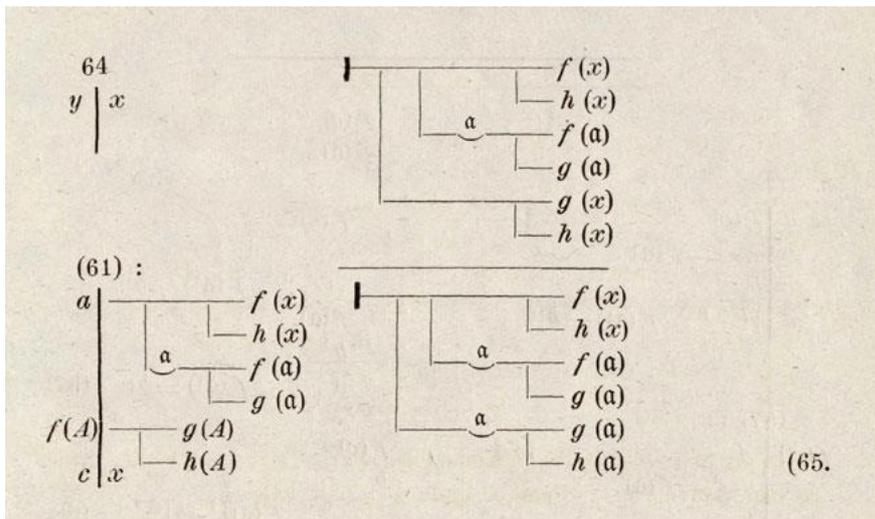
$$\begin{array}{l} \vdash \quad f(d) \\ \quad \vdash \quad f(c) \\ \quad \vdash \quad (c \equiv d) \end{array} \quad (52.)$$

Versão ampliada da lei das **substitutibilidade dos idênticos**.

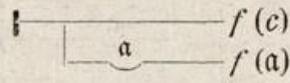
$$\begin{array}{l} 52 \\ \\ (8) : \\ a \mid f(d) \\ b \mid f(c) \\ d \mid (c \equiv d) \end{array} \quad \begin{array}{l} \vdash \quad f(d) \\ \quad \vdash \quad f(c) \\ \quad \vdash \quad (c \equiv d) \\ \hline \vdash \quad f(d) \\ \quad \vdash \quad (c \equiv d) \\ \quad \vdash \quad f(c) \end{array} \quad (53.)$$

$$\S 21. \quad \vdash \quad (c \equiv c) . \quad (54.)$$

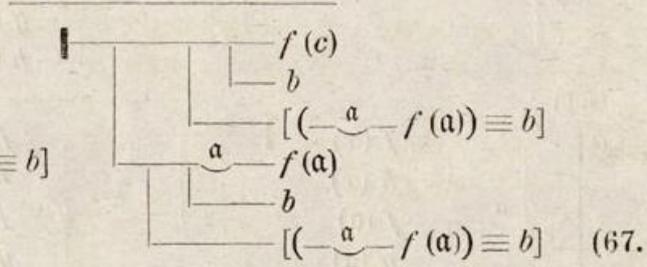
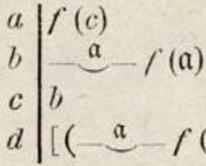
Derivação do teorema (65): a questão do escopo de quantificação



(61) Fazer a substituição em três etapas. Observar a manutenção da estrutura inicial.

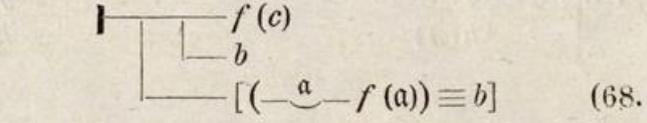
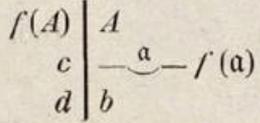


(7) :

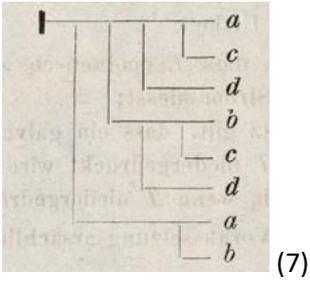


(67.)

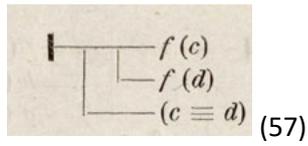
(57) ::



(68.)



(7)



(57)