

t4_yellow16

(TMH8qNNKZFdw2iXojCykdyGGtuHkBKH2dmW)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v11_quantal1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\neg(r1_tarski (k10_xtuple_0 X0) (k10_xtuple_0 X1)) \wedge (\forall X2.((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow (\neg(k9_xtuple_0 X2 = k9_xtuple_0 X0) \wedge ((r1_tarski (k10_xtuple_0 X2) (k9_xtuple_0 X1)) \wedge (X0 = k3_relat_1 X2 X1))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(v1_relat_1 X1) \Rightarrow (\forall X2.(v1_relat_1 X2) \Rightarrow (k3_relat_1 (k3_relat_1 X0 X1) X2 = k3_relat_1 X0 (k3_relat_1 X1 X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v11_quantal1 X0) \Leftrightarrow (k3_relat_1 X0 X0 = X0)) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (((v11_quantal1 X0) \wedge ((r1_tarski (k10_xtuple_0 X1) (k10_xtuple_0 X0)) \wedge (r1_tarski (k10_xtuple_0 X1) (k9_xtuple_0 X0)))) \Rightarrow (k3_relat_1 X1 X0 = X1))) \end{aligned}$$