

t29_grfunc_1

(TMctgpoDYhMXvrARkjmZ7P8umHjq62P4d86)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((k9_xtuple_0 X0 = \\ k9_xtuple_0 X1) \wedge (\forall X3.(X3 \in X2) \Rightarrow (k1_funct_1 X0 X3 = k1_funct_1 \\ X1 X3))) \Rightarrow (k5_relat_1 X0 X2 = k5_relat_1 X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((\\ v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2.((k9_xtuple_0 X0 = \\ k9_xtuple_0 X1) \wedge (k1_funct_1 X0 X2 = k1_funct_1 X1 X2)) \Rightarrow (k5_relat_1 \\ X0 (k1_tarski X2) = k5_relat_1 X1 (k1_tarski X2)))) \end{aligned}$$