

t2_funct_6

(TMQz4PvQLQeM9fgQPWpjjDrE4BPBwpp9nbR)

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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 $k2_funct_4 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow ((v1_relat_1 (k2_funct_4 X0)) \wedge (v1_funct_1 (k2_funct_4 X0))) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_relat_1 X0) \wedge (v1_funct_1 X0)) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow ((X1 = k2_funct_4 X0) \Leftrightarrow ((\forall X2. \\ & (X2 \in k9_xtuple_0 X1) \Leftrightarrow (\exists X3. \exists X4. (X2 = k4_tarski X4 X3) \wedge (k4_tarski X3 X4 \in k9_xtuple_0 X0))) \wedge (\forall X2. \forall X3. \\ & (k4_tarski X2 X3 \in k9_xtuple_0 X0) \Rightarrow (k1_binop_1 X1 X3 X2 = k1_binop_1 X0 X2 X3)))))) \end{aligned} \quad (2)$$

Theorem 1

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\neg (X0 \in k9_xtuple_0 (k2_funct_4 X1)) \wedge (\forall X2. \forall X3. X0 \neq k4_tarski X2 X3))$$