

t1_pralg_2
(TMGD19CGZibZqpFz8oA317F6uEW91XLc2XR)

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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 $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_pralg_2 : \iota \Rightarrow \iota$ be given. Let $k10_funct_6 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$k10_funct_6 \ k1_xboole_0 = k1_xboole_0 \quad (1)$$

Assume the following.

$$v1_xboole_0 \ k1_xboole_0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1_tarski \ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (X2 = X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_relat_1 \ X0) \wedge (v1_funct_1 \ X0)) \Rightarrow (\forall X1. ((\\ & v1_relat_1 \ X1) \wedge (v1_funct_1 \ X1)) \Rightarrow ((X1 = k1_pralg_2 \ X0) \Leftrightarrow ((\forall X2. \\ & (X2 \in k9_xtuple_0 \ X1) \Leftrightarrow (\exists X3. ((v1_relat_1 \ X3) \wedge (v1_funct_1 \\ & X3)) \wedge ((X3 \in k9_xtuple_0 \ X0) \wedge (X2 = k10_funct_6 \ X3)))) \wedge (\forall X2. \\ & ((v1_relat_1 \ X2) \wedge (v1_funct_1 \ X2)) \Rightarrow ((X2 \in k9_xtuple_0 \ X1) \Rightarrow (k1_funct_1 \\ & X1 \ X2 = k1_funct_1 \ X0 \ (k10_funct_6 \ X2)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_relat_1 \ X0) \quad (5)$$

Assume the following.

$$\forall X0. (v1_xboole_0 \ X0) \Rightarrow (v1_funct_1 \ X0) \quad (6)$$

Theorem 1

$$\forall X0. ((v1_relat_1 \ X0) \wedge (v1_funct_1 \ X0)) \Rightarrow ((k9_xtuple_0 \ X0 = k1_tarski \ k1_xboole_0) \Rightarrow (k1_pralg_2 \ X0 = X0))$$