

t7_taxonom2
(TMaT9Qbt8FaiXSVgKhsz8DNC5uHB722kDpG)

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Let $v3_taxonom2 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$np_1 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v3_taxonom2\ X0) \Leftrightarrow (\forall X1.\forall X2.\neg(X1 \in X0) \wedge \\ ((X2 \in X0) \wedge (\neg r1_tarski\ X1\ X2) \wedge (\neg r1_tarski\ X2\ X1) \wedge (\neg r1_xboole_0 \\ X1\ X2)))) \end{aligned} \quad (2)$$

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.

$$\forall X0.\forall X1.(X0 = X1) \Leftrightarrow ((r1_tarski\ X0\ X1) \wedge (r1_tarski\ X1\ X0)) \quad (4)$$

Theorem 1 $v3_taxonom2\ (k1_tarski\ k1_xboole_0)$.