

t2_setfam_1
(TMYMD3pV3Ffq22UpJnin9oVTR9VTqxVDsNT)

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Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \neg(X0 \neq k1_xboole_0) \wedge (\forall X1. \neg X1 \in X0) \quad (1)$$

Assume the following.

$$\forall X0. r1_tarski\ k1_xboole_0\ X0 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. k3_xboole_0\ X0\ X0 = X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3_tarski\ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski\ X0\ X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (5)$$

Assume the following.

$$k1_xboole_0 = the\ (\lambda X0 : \iota. v1_xboole_0\ X0) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. ((X0 \neq k1_xboole_0) \Rightarrow ((X1 = k1_setfam_1\ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\forall X3. (X3 \in X0) \Rightarrow (X2 \in X3)))))) \wedge ((X0 = k1_xboole_0) \Rightarrow ((X1 = k1_setfam_1\ X0) \Leftrightarrow (X1 = k1_xboole_0))) \quad (7)$$

Theorem 1 $\forall X0. r1_tarski\ (k1_setfam_1\ X0)\ (k3_tarski\ X0).$