

t3_setfam_1 (TMNweTKgJqmB- daLJGCZs66MpHAeZbPxeVnK)

October 27, 2020

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

$$\forall X0. r1_tarski\ k1_xboole_0\ X0 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski\ X0\ X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. ((X0 \neq k1_xboole_0) \Rightarrow ((X1 = k1_setfam_1\ X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\forall X3. (X3 \in X0) \Rightarrow (X2 \in X3)))))) \wedge ((X0 = k1_xboole_0) \Rightarrow ((X1 = k1_setfam_1\ X0) \Leftrightarrow (X1 = k1_xboole_0))) \tag{3}$$

Theorem 1 $\forall X0. \forall X1. (X0 \in X1) \Rightarrow (r1_tarski\ (k1_setfam_1\ X1)\ X0).$