

t14_setfam_1
(TMK52NFdzE9wn3pT7Gt1eQD5ZjVTWvtNngy)

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Let $r2_setfam_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_setfam_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (r1_tarski X0 X2)) \Rightarrow (r1_tarski (k1_setfam_1 X1) X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Rightarrow (r1_tarski X1 X2)) \Rightarrow ((X0 = k1_xboole_0) \vee (r1_tarski X1 (k1_setfam_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r2_setfam_1 X0 X1) \Leftrightarrow (\forall X2. \neg (X2 \in X1) \wedge (\forall X3. \neg (X3 \in X0) \wedge (r1_tarski X3 X2))) \quad (3)$$

Theorem 1

$$\forall X0. \forall X1. (r2_setfam_1 X1 X0) \Rightarrow ((X0 = k1_xboole_0) \vee (r1_tarski (k1_setfam_1 X1) (k1_setfam_1 X0)))$$