

t19\_setfam\_1  
 (TMZqMZaycsVVf7aDmHY92rTgqfEjjzVRSVZ)

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Let  $r1\_setfam\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarski X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1\_setfam\_1 X0 X1) \Leftrightarrow (\forall X2. \neg(X2 \in X0) \wedge (\forall X3. \neg(X3 \in X1) \wedge (r1\_tarski X2 X3))) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. \forall X2. (r1\_setfam\_1 X2 (k2\_tarski X0 X1)) \Rightarrow (\forall X3. \neg(X3 \in X2) \wedge ((\neg r1\_tarski X3 X0) \wedge (\neg r1\_tarski X3 X1)))$$