

t5\_setfam\_1 (TMbE-  
Cuc2zcC8CgrErE7NkhUxFQXDsiNkWkU)

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Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_setfam\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((X0 \neq k1\_xboole\_0) \Rightarrow ((X1 = k1\_setfam\_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\forall X3. (X3 \in X0) \Rightarrow (X2 \in X3)))))) \wedge ((X0 = k1\_xboole\_0) \Rightarrow ((X1 = k1\_setfam\_1 X0) \Leftrightarrow (X1 = k1\_xboole\_0))) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Rightarrow (r1\_tarski X1 X2)) \Rightarrow ((X0 = k1\_xboole\_0) \vee (r1\_tarski X1 (k1\_setfam\_1 X0)))$$