

t2\_yellow\_8 (TMV-  
TuZXhLHBMBY6LPLCQdqEnAkhphzAWb8K)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k5\_finsub\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_setfam\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $v4\_finsub\_1 : \iota \Rightarrow o$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k1\_setfam\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0 X0) \wedge (v4\_finsub\_1 X0)) \Rightarrow (k1\_xboole\_0 \in X0) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xboole\_0 X0) \Rightarrow (X0 = k1\_xboole\_0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (r1\_tarski (k1\_setfam\_1 X1) X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X1 \in k5\_finsub\_1 X0) \wedge (r1\_tarski X2 X1)) \Rightarrow (X2 \in k5\_finsub\_1 X0) \quad (7)$$

Assume the following.

$$k1\_setfam\_1\ k1\_xboole\_0 = k1\_xboole\_0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))\Rightarrow(k6\_setfam\_1\ X0\ X1 = k1\_setfam\_1\ X1) \quad (9)$$

Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ (k5\_finsub\_1\ X0))\wedge(v4\_finsub\_1\ (k5\_finsub\_1\ X0)) \quad (10)$$

Assume the following.

$$\forall X0.\exists X1.m1\_subset\_1\ X1\ X0 \quad (11)$$

Assume the following.

$$\forall X0.v4\_finsub\_1\ (k5\_finsub\_1\ X0) \quad (12)$$

**Theorem 1**

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0)))\Rightarrow((r1\_tarski\ X1\ (k5\_finsub\_1\ X0))\Rightarrow(k6\_setfam\_1\ X0\ X1 \in k5\_finsub\_1\ X0))$$