

## t5\_mssubfam

(TMai1ZBvUBA9w3KkDzGnPEGo4aSxQpXU8fL)

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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  $k1\_xboole\_0 : \iota$  be given. Let  $k8\_setfam\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_setfam\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (\forall X2. (X2 \in X0) \Rightarrow (r1\_tarski X1 X2)) \Rightarrow ((X0 = k1\_xboole\_0) \vee (r1\_tarski X1 (k1\_setfam\_1 X0))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 X0))) \Rightarrow (k6\_setfam\_1 X0 X1 = k1\_setfam\_1 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (k1\_zfmisc\_1 X0))) \Rightarrow (((X1 \neq k1\_xboole\_0) \Rightarrow (k8\_setfam\_1 X0 X1 = k6\_setfam\_1 X0 X1)) \wedge ((X1 = k1\_xboole\_0) \Rightarrow (k8\_setfam\_1 X0 X1 = X0))) \quad (3)$$

### Theorem 1

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k1\_zfmisc\_1 X0))) \Rightarrow ((\forall X3. (X3 \in X2) \Rightarrow (r1\_tarski X1 X3)) \Rightarrow ((X2 = k1\_xboole\_0) \vee (r1\_tarski X1 (k8\_setfam\_1 X0 X2))))$$