

t1\_toler\_1  
(TMSXbFqUo1ygse3C6ZXZXUGbCSv43ovuntf)

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Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_eqrel\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v3\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v8\_relat\_2 : \iota \Rightarrow o$  be given. Let  $v1\_partfun1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4\_tarski X0 X1 \in k2\_zfmisc\_1 X2 X3) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X3)) \quad (1)$$

Assume the following.

$$\forall X0. (v3\_relat\_2 (k1\_eqrel\_1 X0)) \wedge ((v8\_relat\_2 (k1\_eqrel\_1 X0)) \wedge ((v1\_partfun1 (k1\_eqrel\_1 X0) X0) \wedge (m1\_subset\_1 (k1\_eqrel\_1 X0) (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X0)))))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 (k2\_zfmisc\_1 X0 X1))) \Rightarrow ((\forall X3. \neg (X3 \in X1) \wedge (\forall X4. \neg k4\_tarski X4 X3 \in X2)) \Leftrightarrow (k2\_relset\_1 X1 X2 = X1)) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_xboole\_0 X0) \Leftrightarrow (\forall X1. \neg X1 \in X0) \quad (4)$$

Assume the following.

$$\forall X0. k1\_eqrel\_1 X0 = k2\_zfmisc\_1 X0 X0 \quad (5)$$

**Theorem 1**  $\forall X0. k2\_relset\_1 X0 (k1\_eqrel\_1 X0) = X0.$