

t45\_subset\_1  
 (TMcfqZBf28abPBL7L6ZTs8kMvE9X26zyFBc)

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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  $v1\_zfmisc\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X2 (k1\_zfmisc\_1 X1)) \Rightarrow ((X0 \in X2) \Rightarrow (m1\_subset\_1 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1\_zfmisc\_1 X0) \Leftrightarrow (\forall X1. \forall X2. ((X1 \in X0) \wedge (X2 \in X0)) \Rightarrow (X1 = X2)) \quad (2)$$

**Theorem 1**

$$\forall X0. \forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (\neg(\neg v1\_zfmisc\_1 X1) \wedge (\forall X2. (m1\_subset\_1 X2 X0) \Rightarrow (\forall X3. (m1\_subset\_1 X3 X0) \Rightarrow (\neg(X2 \in X1) \wedge ((X3 \in X1) \wedge (X2 \neq X3)))))))$$