

t16\_group\_2  
(TMXD2iJKQ1QhCEyLhz5sMQsJLLBwYpzeifj)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $l3\_algstr\_0 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_group\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_subset\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l3\_algstr\_0 X0)) \Rightarrow (\forall X1. \\ & \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (\forall X2. \\ & (m1\_subset\_1 X2 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow (((X1 \neq k1\_xboole\_0) \wedge \\ & \quad (X2 \neq k1\_xboole\_0)) \Leftrightarrow (k2\_group\_2 X0 X1 X2 \neq k1\_xboole\_0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. m1\_subset\_1 (k1\_subset\_1 X0) (k1\_zfmisc\_1 X0) \tag{2}$$

Assume the following.

$$\forall X0. k1\_subset\_1 X0 = k1\_xboole\_0 \tag{3}$$

**Theorem 1**

$$\begin{aligned} & \forall X0. ((\neg v2\_struct\_0 X0) \wedge (l3\_algstr\_0 X0)) \Rightarrow (\forall X1. \\ & \quad (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_struct\_0 X0))) \Rightarrow ((k2\_group\_2 \\ & X0 (k1\_subset\_1 (u1\_struct\_0 X0)) X1 = k1\_xboole\_0) \wedge (k2\_group\_2 \\ & \quad X0 X1 (k1\_subset\_1 (u1\_struct\_0 X0)) = k1\_xboole\_0))) \end{aligned}$$