

t50\_aofa\_000

(TMT9M2itwS7dg5uqHn8QKPPdPksvGGws5kK)

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Let  $v2\_struct\_0 : \iota \Rightarrow o$  be given. Let  $v2\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v3\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v4\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $v3\_aofa\_000 : \iota \Rightarrow o$  be given. Let  $v4\_aofa\_000 : \iota \Rightarrow o$  be given. Let  $v5\_aofa\_000 : \iota \Rightarrow o$  be given. Let  $v6\_aofa\_000 : \iota \Rightarrow o$  be given. Let  $l1\_unialg\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k13\_aofa\_000 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k18\_aofa\_000 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_tarSKI : \iota \Rightarrow \iota$  be given. Let  $k12\_aofa\_000 : \iota \Rightarrow \iota$  be given. Let  $k2\_relset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_pua2mss1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_7 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_3 : \iota$  be given. Let  $k4\_finseq\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_unialg\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_4 : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (k7\_subset\_1 X0 X1 X2 = k4\_xboole\_0 X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k6\_subset\_1 X0 X1 = k4\_xboole\_0 X0 X1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (m1\_subset\_1 (k7\_subset\_1 X0 X1 X2) (k1\_zfmisc\_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. m1\_subset\_1 (k6\_subset\_1 X0 X1) (k1\_zfmisc\_1 X0) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k4\_xboole\_0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (\neg X3 \in X1))) \quad (5)$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\
& X0) \wedge ((v4\_unialg\_1 X0) \wedge ((v3\_aofa\_000 X0) \wedge ((v4\_aofa\_000 X0) \wedge \\
& ((v5\_aofa\_000 X0) \wedge ((v6\_aofa\_000 X0) \wedge (l1\_unialg\_1 X0))))))) \Rightarrow \\
& (k18\_aofa\_000 X0 = k7\_subset\_1 (u1\_struct\_0 X0) (k7\_subset\_1 ( \\
& u1\_struct\_0 X0) (k7\_subset\_1 (u1\_struct\_0 X0) (k6\_subset\_1 (u1\_struct\_0 \\
& X0) (k1\_tarski (k12\_aofa\_000 X0))) (k2\_relset\_1 (u1\_struct\_0 \\
& X0) (k2\_pua2mss1 X0 (k1\_funct\_7 np\_3 (k4\_finseq\_1 (u1\_unialg\_1 \\
& X0)))))) (k2\_relset\_1 (u1\_struct\_0 X0) (k2\_pua2mss1 X0 (k1\_funct\_7 \\
& np\_4 (k4\_finseq\_1 (u1\_unialg\_1 X0)))))) (ReplSep2 (toset (\lambda X1 : \\
& \iota.m1\_subset\_1 X1 (u1\_struct\_0 X0))) (\lambda X1 : \iota.toset (\lambda X2 : \\
& \iota.m1\_subset\_1 X2 (u1\_struct\_0 X0))) (\lambda X1 : \iota.\lambda X2 : \iota. \\
& (X1 \neq k13\_aofa\_000 X0 X1 X2) \wedge (X2 \neq k13\_aofa\_000 X0 X1 X2)) (\lambda X1 : \\
& \iota.\lambda X2 : \iota.k13\_aofa\_000 X0 X1 X2)))
\end{aligned} \tag{6}$$

**Theorem 1**

$$\begin{aligned}
& \forall X0.((\neg v2\_struct\_0 X0) \wedge ((v2\_unialg\_1 X0) \wedge ((v3\_unialg\_1 \\
& X0) \wedge ((v4\_unialg\_1 X0) \wedge ((v3\_aofa\_000 X0) \wedge ((v4\_aofa\_000 X0) \wedge \\
& ((v5\_aofa\_000 X0) \wedge ((v6\_aofa\_000 X0) \wedge (l1\_unialg\_1 X0))))))) \Rightarrow \\
& (\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 X0)) \Rightarrow (\forall X2.(m1\_subset\_1 \\
& X2 (u1\_struct\_0 X0)) \Rightarrow (\neg (X1 \neq k13\_aofa\_000 X0 X1 X2) \wedge ((X2 \neq k13\_aofa\_000 \\
& X0 X1 X2) \wedge (k13\_aofa\_000 X0 X1 X2 \in k18\_aofa\_000 X0))))))
\end{aligned}$$