

t17\_ospace  
(TMRuQhRKfVZH89U8CoHPdxVbjtjh7pHro2)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u1\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_ospace : \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_ospace : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_struct\_0 : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k1\_supinf\_2 : \iota$  be given. Let  $k1\_subset\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. k5\_xboole\_0 X0 X0 = k1\_xboole\_0 \quad (1)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 (u1\_struct\_0 k2\_ospace)) \Rightarrow ((X0 = k4\_struct\_0 k2\_ospace) \Leftrightarrow (X0 \neq k5\_struct\_0 k2\_ospace)) \quad (2)$$

Assume the following.

$$k5\_struct\_0 k2\_ospace = np\_1 \quad (3)$$

Assume the following.

$$k4\_struct\_0 k2\_ospace = k1\_xboole\_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((r1\_tarski X0 X1) \wedge (r1\_tarski X2 X1)) \Rightarrow (r1\_tarski (k5\_xboole\_0 X0 X2) X1) \quad (6)$$

Assume the following.

$$\forall X0. k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (7)$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((m1\_subset\_1 X1 (k1\_zfmisc\_1 \\ X0))\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 X0)))\Rightarrow(k5\_subset\_1 X0 X1 X2 = \\ k5\_xboole\_0 X1 X2) \end{aligned} \quad (9)$$

Assume the following.

$$k1\_supinf\_2 = k1\_xboole\_0 \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((m1\_subset\_1 X1 (u1\_struct\_0 \\ k2\_bspace))\wedge(m1\_subset\_1 X2 (k1\_zfmisc\_1 X0)))\Rightarrow(m1\_subset\_1 \\ (k4\_bspace X0 X1 X2) (k1\_zfmisc\_1 X0)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 k2\_bspace))\Rightarrow \\ (\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))\Rightarrow(((X1 = k5\_struct\_0 \\ k2\_bspace)\Rightarrow(k4\_bspace X0 X1 X2 = X2))\wedge((X1 = k4\_struct\_0 k2\_bspace)\Rightarrow \\ (k4\_bspace X0 X1 X2 = k1\_subset\_1 X0)))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.k1\_subset\_1 X0 = k1\_xboole\_0 \quad (13)$$

**Theorem 1**

$$\begin{aligned} \forall X0.\forall X1.(m1\_subset\_1 X1 (u1\_struct\_0 k2\_bspace))\Rightarrow \\ (\forall X2.(m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))\Rightarrow(\forall X3.(m1\_subset\_1 \\ X3 (k1\_zfmisc\_1 X0))\Rightarrow(k4\_bspace X0 X1 (k5\_subset\_1 X0 X2 X3) = k5\_subset\_1 \\ X0 (k4\_bspace X0 X1 X2) (k4\_bspace X0 X1 X3)))) \end{aligned}$$