

t1\_inensp\_1  
(TMPfLD7QtFQAkoET4veomPiwPNEMdPi1rqE)

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Let  $l1\_inensp\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $u2\_inensp\_1 : \iota \Rightarrow \iota$  be given. Let  $u1\_inensp\_1 : \iota \Rightarrow \iota$  be given. Let  $r4\_inensp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k7\_domain\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_inensp\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X0) \wedge ((m1\_subset\_1 X1 X0) \wedge (m1\_subset\_1 X2 X0))) \Rightarrow (k7\_domain\_1 X0 X1 X2 = k2\_tarSKI X1 X2) \quad (1)$$

Assume the following.

$$\forall X0. (l1\_inensp\_1 X0) \Rightarrow (\neg v1\_xboole\_0 (u1\_inensp\_1 X0)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((\neg v1\_xboole\_0 X0) \wedge ((m1\_subset\_1 X1 X0) \wedge (m1\_subset\_1 X2 X0))) \Rightarrow (m1\_subset\_1 (k7\_domain\_1 X0 X1 X2) (k1\_zfmisc\_1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. (l1\_inensp\_1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 (u1\_inensp\_1 X0))) \Rightarrow (\forall X2. (m1\_subset\_1 X2 (u2\_inensp\_1 X0)) \Rightarrow ((r4\_inensp\_1 X0 X1 X2) \Leftrightarrow (\forall X3. (m1\_subset\_1 X3 (u1\_inensp\_1 X0)) \Rightarrow ((X3 \in X1) \Rightarrow (r1\_inensp\_1 X0 X3 X2))))))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k2\_tarSKI X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 = X0) \vee (X3 = X1))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. k2\_tarSKI X0 X1 = k2\_tarSKI X1 X0 \quad (6)$$

**Theorem 1**

$$\begin{aligned} \forall X0.(l1\_incsp\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (u2\_incsp\_1 \\ X0)) \Rightarrow (\forall X2.(m1\_subset\_1 X2 (u1\_incsp\_1 X0)) \Rightarrow (\forall X3. \\ (m1\_subset\_1 X3 (u1\_incsp\_1 X0)) \Rightarrow ((r4\_incsp\_1 X0 (k7\_domain\_1 \\ (u1\_incsp\_1 X0) X2 X3) X1) \Leftrightarrow ((r1\_incsp\_1 X0 X2 X1) \wedge (r1\_incsp\_1 X0 \\ X3 X1)))))) \end{aligned}$$