t57_scmfsa_2 (TMae2gPMaABZMc5eCyxXrFnVd2n29sa4r1w)

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Let $m1\_scmfsa\_2 : \iota \Rightarrow o$ be given. Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $r1\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_scmfsa\_1 : \iota$ be given. Let $k1\_ami\_2 : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(\neg(\neg r1\_xboole\_0\ X0\ X1) \wedge (\forall X2.\neg(X2 \in X0) \wedge (X2 \in X1))) \wedge (\neg(\exists X2.(X2 \in X0) \wedge (X2 \in X1)) \wedge (r1\_xboole\_0\ X0\ X1)) \tag{1}$$

Assume the following.

$$r1\_subset\_1\ k3\_scmfsa\_1\ k1\_ami\_2 \tag{2}$$

Assume the following.

$$k5\_numbers \in k1\_ami\_2 \tag{3}$$

Assume the following.

$$k4\_struct\_0\ k1\_scmfsa\_2 = k5\_numbers \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0) \wedge (\neg v1\_xboole\_0\ X1)) \Rightarrow ((r1\_subset\_1\ X0\ X1) \Leftrightarrow (r1\_xboole\_0\ X0\ X1)) \tag{5}$$

Assume the following.

$$\exists X0.m1\_scmfsa\_2\ X0 \tag{6}$$

Assume the following.

$$\forall X0.(m1\_scmfsa\_2\ X0) \Rightarrow (m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)) \Rightarrow ((m1\_scmfsa\_2\ X0) \Leftrightarrow (X0 \in k3\_scmfsa\_1)) \tag{8}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Leftrightarrow (\forall X1.\neg X1 \in X0) \tag{9}$$

Theorem 1 $\forall X0.(m1\_scmfsa\_2\ X0) \Rightarrow (X0 \neq k4\_struct\_0\ k1\_scmfsa\_2)$.