t14_scmfsa_m (TMa1mYkpdVyYKUV3CtkAjWcsQ1amtWYbw9G)

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Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_scmfsa\_2 : \iota$ be given. Let $k2\_scmfsa\_m : \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v6\_membered : \iota \Rightarrow o$ be given. Let $k6\_seq\_4 : \iota \Rightarrow \iota$ be given. Let $k2\_xxreal\_2 : \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_2 : \iota \Rightarrow o$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_ami\_2 : \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $v2\_membered : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $k4\_scmfsa\_2 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $v3\_membered : \iota \Rightarrow o$ be given. Let $v4\_membered : \iota \Rightarrow o$ be given. Let $v5\_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1\_xboole\_0\ X0) \wedge (v6\_membered\ X0)) \Rightarrow (k6\_seq\_4\ X0 = k2\_xxreal\_2\ X0) \tag{1}$$

Assume the following.

$$\forall X0.((v6\_membered\ X0) \wedge (v1\_xxreal\_2\ X0)) \Rightarrow ((v1\_xxreal\_0\ (k2\_xxreal\_2\ X0)) \wedge (v7\_ordinal1\ (k2\_xxreal\_2\ X0))) \tag{2}$$

Assume the following.

$$\forall X0.((v1\_finset\_1\ X0) \wedge (m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k2\_scmfsa\_2))) \Rightarrow ((v1\_ami\_2\ (k2\_scmfsa\_m\ X0)) \wedge (m1\_subset\_1\ (k2\_scmfsa\_m\ X0)\ (u1\_struct\_0\ k1\_scmfsa\_2))) \tag{3}$$

Assume the following.

$$\forall X0.((v2\_membered\ X0) \wedge (v1\_xxreal\_2\ X0)) \Rightarrow (\forall X1.\ (v1\_xxreal\_0\ X1) \Rightarrow ((X1 = k2\_xxreal\_2\ X0) \Leftrightarrow ((X1 \in X0) \wedge (\forall X2.\ (v1\_xxreal\_0\ X2) \Rightarrow ((X2 \in X0) \Rightarrow (r1\_xxreal\_0\ X1\ X2)))))) \tag{4}$$

Assume the following.

$$\forall X0.((v1\_finset\_1\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k2\_scmfsa\_2)))\Rightarrow (\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow ((X1 = k2\_scmfsa\_m\ X0)\Leftrightarrow(\exists X2.((\neg v1\_xboole\_0\ X2)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ k5\_numbers)))\wedge((X1 = k4\_scmfsa\_2\ (k6\_seq\_4\ X2))\wedge (X2 = ReplSep\ (toset\ (\lambda X3 : \iota.m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers))\ (\lambda X3 : \iota.\neg k4\_scmfsa\_2\ X3 \in X0)\ (\lambda X3 : \iota.X3)))))) \tag{5}$$

Assume the following.

$$\forall X0.(v3\_membered\ X0)\Rightarrow(v2\_membered\ X0) \tag{6}$$

Assume the following.

$$\forall X0.((v6\_membered\ X0)\wedge(\neg v1\_xboole\_0\ X0))\Rightarrow((v6\_membered\ X0)\wedge((\neg v1\_xboole\_0\ X0)\wedge(v1\_xxreal\_2\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.(v4\_membered\ X0)\Rightarrow(v3\_membered\ X0) \tag{8}$$

Assume the following.

$$\forall X0.(v5\_membered\ X0)\Rightarrow(v4\_membered\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(v6\_membered\ X0)\Rightarrow(v5\_membered\ X0) \tag{10}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k5\_numbers))\Rightarrow(v6\_membered\ X0) \tag{11}$$

Theorem 1

$$\forall X0.((v1\_finset\_1\ X0)\wedge(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ k2\_scmfsa\_2)))\Rightarrow(\neg k2\_scmfsa\_m\ X0 \in X0)$$