t4_sfmastr3 (TMRPT8NDZnTutrypw3fGK2gH3eJnKLm4svr)

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Let $v1\_ami\_2 : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $r1\_scmfsa7b : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_scmfsa\_2 : \iota \Rightarrow o$ be given. Let $k2\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k17\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_12 : \iota$ be given. Let $k15\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_10 : \iota$ be given. Let $k14\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_9 : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k13\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_8 : \iota$ be given. Let $k12\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_7 : \iota$ be given. Let $k10\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $k9\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $k8\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $k7\_scmfsa\_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v3\_ordinal1 : \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(m1\_scmfsa\_2\ X0) \Rightarrow (\forall X1.((v1\_ami\_2\ X1) \wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k17\_scmfsa\_2\ X1\ X0) = np\_\_12)) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_scmfsa\_2\ X0) \Rightarrow (\forall X1.((v1\_ami\_2\ X1) \wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (\forall X2.((v1\_ami\_2\ X2) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k15\_scmfsa\_2\ X2\ X1\ X0) = np\_\_10))) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_scmfsa\_2\ X0) \Rightarrow (\forall X1.((v1\_ami\_2\ X1) \wedge (m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (\forall X2.((v1\_ami\_2\ X2) \wedge (m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2))) \Rightarrow (k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k14\_scmfsa\_2\ X1\ X2\ X0) = np\_\_9))) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k13\_scmfsa\_2\ X0\ X1) = np\_\_8)) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k12\_scmfsa\_2\ X0\ X1) = np\_\_7)) \tag{5}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k10\_scmfsa\_2\ X0\ X1) = np\_\_5)) \tag{6}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k9\_scmfsa\_2\ X0\ X1) = np\_\_4)) \tag{7}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k8\_scmfsa\_2\ X0\ X1) = np\_\_3)) \tag{8}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X2.((v1\_ami\_2\ X2)\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X3.((v1\_ami\_2\ X3)\wedge(m1\_subset\_1\ X3\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow((k6\_scmfsa\_2\ X0\ X1 = k6\_scmfsa\_2\ X2\ X3)\Rightarrow((X0 = X2)\wedge(X1 = X3)))))) \tag{9}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k7\_scmfsa\_2\ X0\ X1) = np\_\_2)) \tag{10}$$

Assume the following.

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(k2\_compos\_0\ (u1\_compos\_1\ k1\_scmfsa\_2)\ (k6\_scmfsa\_2\ X0\ X1) = np\_\_1)) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1\_xboole\_0\ X0)\wedge((\neg v1\_xboole\_0\ X1)\wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))))\Rightarrow(\forall X2.(m2\_subset\_1\ X2\ X0\ X1)\Leftrightarrow(m1\_subset\_1\ X2\ X1)) \tag{12}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{13}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k4\_ordinal1)\wedge(v3\_ordinal1\ k4\_ordinal1) \tag{14}$$

Assume the following.

$$\forall X0.\forall X1.(((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\wedge((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2))))\Rightarrow(m1\_subset\_1\ (k6\_scmfsa\_2\ X0\ X1)\ (u1\_compos\_1\ k1\_scmfsa\_2)) \tag{15}$$

Assume the following.

$$m1\_subset\_1\ k5\_numbers\ (k1\_zfmisc\_1\ k1\_numbers) \tag{16}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow((r1\_scmfsa7b\ X0\ X1)\Leftrightarrow(\neg\forall X2.((v1\_ami\_2\ X2)\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X3.(m2\_subset\_1\ X3\ k1\_numbers\ k5\_numbers)\Rightarrow(\forall X4.(m1\_scmfsa\_2\ X4)\Rightarrow((k6\_scmfsa\_2\ X2\ X1\neq X0)\wedge((k7\_scmfsa\_2\ X2\ X1\neq X0)\wedge((k8\_scmfsa\_2\ X2\ X1\neq X0)\wedge((k9\_scmfsa\_2\ X2\ X1\neq X0)\wedge((k10\_scmfsa\_2\ X2\ X1\neq X0)\wedge((k10\_scmfsa\_2\ X1\ X2\neq X0)\wedge((k12\_scmfsa\_2\ X3\ X1\neq X0)\wedge((k13\_scmfsa\_2\ X3\ X1\neq X0)\wedge((k14\_scmfsa\_2\ X2\ X1\ X4\neq X0)\wedge((k15\_scmfsa\_2\ X1\ X2\ X4\neq X0)\wedge((k15\_scmfsa\_2\ X2\ X1\ X4\neq X0)\wedge(k17\_scmfsa\_2\ X1\ X4\neq X0))))))))))))))))) \tag{17}$$

Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0))\Rightarrow(v1\_xboole\_0\ X1)) \tag{18}$$

Theorem 1

$$\forall X0.((v1\_ami\_2\ X0)\wedge(m1\_subset\_1\ X0\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X1.((v1\_ami\_2\ X1)\wedge(m1\_subset\_1\ X1\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\forall X2.((v1\_ami\_2\ X2)\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ k1\_scmfsa\_2)))\Rightarrow(\neg(X0\neq X1)\wedge(r1\_scmfsa7b\ (k6\_scmfsa\_2\ X2\ X1)\ X0))))$$