t31_sf_mastr (TMTv-fAbH3MLAFpV1G1WcGCNhos2HaNpU189)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_compos\_1 : \iota \Rightarrow \iota$ be given. Let $k1\_scmfsa\_2 : \iota$ be given. Let $k2\_sf\_mastr : \iota \Rightarrow \iota$ be given. Let $k6\_scmfsa6a : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_setwiseo : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_scmfsa\_2 : \iota$ be given. Let $k1\_sf\_mastr : \iota \Rightarrow \iota$ be given. Let $v1\_relat\_1 : \iota \Rightarrow o$ be given. Let $v4\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $v5\_relat\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_funct\_1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_finset\_1 : \iota \Rightarrow o$ be given. Let $v1\_afinsq\_1 : \iota \Rightarrow o$ be given. Let $k4\_scmfsa6a : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11\_compos\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_finsub\_1 : \iota \Rightarrow \iota$ be given. Let $k2\_scm\_inst : \iota$ be given. Let $l1\_compos\_1 : \iota \Rightarrow o$ be given. Let $l1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1\_memstr\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_extpro\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_3 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2)) \Rightarrow (\forall X1.\ ((v1\_relat\_1\ X1) \wedge ((v4\_relat\_1\ X1\ k5\_numbers) \wedge ((v5\_relat\_1\ X1\ (u1\_compos\_1\ k1\_scmfsa\_2)) \wedge ((v1\_funct\_1\ X1) \wedge ((\neg v1\_xboole\_0\ X1) \wedge ((v1\_finset\_1\ X1) \wedge (v1\_afinsq\_1\ X1)))))))) \Rightarrow (k2\_sf\_mastr\ (k4\_scmfsa6a\ X0\ X1) = k2\_xboole\_0\ (k1\_sf\_mastr\ X0)\ (k2\_sf\_mastr\ X1))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2)) \Rightarrow (k2\_sf\_mastr\ (k11\_compos\_1\ k1\_scmfsa\_2\ X0) = k1\_sf\_mastr\ X0) \tag{2}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_compos\_1\ k1\_scmfsa\_2)) \Rightarrow (k6\_scmfsa6a\ X0\ X1 = k4\_scmfsa6a\ X0\ (k11\_compos\_1\ k1\_scmfsa\_2\ X1))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1\_subset\_1\ X1\ (k5\_finsub\_1\ X0))\wedge(m1\_subset\_1\ X2\ (k5\_finsub\_1\ X0)))\Rightarrow(k5\_setwiseo\ X0\ X1\ X2 = k2\_xboole\_0\ X1\ X2) \tag{4}$$

Assume the following.

$$k2\_scmfsa\_2 = k2\_scm\_inst \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.((l1\_compos\_1\ X0)\wedge(m1\_subset\_1\ X1\ (u1\_compos\_1\ X0)))\Rightarrow((\neg v1\_xboole\_0\ (k11\_compos\_1\ X0\ X1))\wedge((v1\_relat\_1\ (k11\_compos\_1\ X0\ X1))\wedge((v4\_relat\_1\ (k11\_compos\_1\ X0\ X1)\ k5\_numbers)\wedge((v5\_relat\_1\ (k11\_compos\_1\ X0\ X1)\ (u1\_compos\_1\ X0))\wedge((v1\_funct\_1\ (k11\_compos\_1\ X0\ X1))\wedge((v1\_finset\_1\ (k11\_compos\_1\ X0\ X1))\wedge(v1\_afinsq\_1\ (k11\_compos\_1\ X0\ X1)))))))) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(l1\_extpro\_1\ X1\ X0)\Rightarrow((l1\_memstr\_0\ X1\ X0)\wedge(l1\_compos\_1\ X1)) \tag{7}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2))\Rightarrow(m1\_subset\_1\ (k1\_sf\_mastr\ X0)\ (k5\_finsub\_1\ k2\_scmfsa\_2)) \tag{8}$$

Assume the following.

$$(v1\_extpro\_1\ k1\_scmfsa\_2\ np\_\_3)\wedge(l1\_extpro\_1\ k1\_scmfsa\_2\ np\_\_3) \tag{9}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_compos\_1\ k1\_scmfsa\_2))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_compos\_1\ k1\_scmfsa\_2))\Rightarrow(k2\_sf\_mastr\ (k6\_scmfsa6a\ X0\ X1) = k5\_setwiseo\ k2\_scmfsa\_2\ (k1\_sf\_mastr\ X0)\ (k1\_sf\_mastr\ X1)))$$