t7_scmfsa_i (TMHcEJXgrfbGgFtMAhLapsHmy2dieDTG3Rd)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2\_scmfsa\_i : \iota$ be given. Let $k3\_scm\_inst : \iota$ be given. Let $k2\_compos\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $np\_\_2 : \iota$ be given. Let $np\_\_3 : \iota$ be given. Let $np\_\_4 : \iota$ be given. Let $np\_\_5 : \iota$ be given. Let $np\_\_6 : \iota$ be given. Let $np\_\_7 : \iota$ be given. Let $np\_\_8 : \iota$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $k7\_card\_1 : \iota \Rightarrow \iota$ be given. Let $np\_\_13 : \iota$ be given. Let $k2\_scm\_inst : \iota$ be given. Let $k1\_scmfsa\_i : \iota$ be given. Let $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k11\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_9 : \iota$ be given. Let $np\_\_10 : \iota$ be given. Let $k10\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_11 : \iota$ be given. Let $np\_\_12 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $v1\_compos\_0 : \iota \Rightarrow o$ be given. Let $k4\_xtuple\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7\_ordinal1\ X0) \Rightarrow (\neg(r1\_xxreal\_0\ X0\ np\_\_8) \wedge ((X0 \neq k6\_numbers) \wedge ((X0 \neq np\_\_1) \wedge ((X0 \neq np\_\_2) \wedge ((X0 \neq np\_\_3) \wedge ((X0 \neq np\_\_4) \wedge ((X0 \neq np\_\_5) \wedge ((X0 \neq np\_\_6) \wedge ((X0 \neq np\_\_7) \wedge (X0 \neq np\_\_8))))))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ X1) \Rightarrow ((v1\_xboole\_0\ X1) \vee (X0 \in X1)) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1\_subset\_1\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k3\_scm\_inst) \Rightarrow (r1\_xxreal\_0\ (k2\_compos\_0\ k3\_scm\_inst\ X0)\ np\_\_8) \tag{4}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1\_xboole\_0\ X0)\wedge(v1\_compos\_0\ X0))\wedge (m1\_subset\_1\ X1\ X0))\Rightarrow(k2\_compos\_0\ X0\ X1 = k4\_xtuple\_0\ X1) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.k4\_xtuple\_0\ (k3\_xtuple\_0\ X0\ X1\ X2) = X0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v1\_xboole\_0\ X0)\wedge(v1\_compos\_0\ X0))\wedge (m1\_subset\_1\ X1\ X0))\Rightarrow(v7\_ordinal1\ (k4\_xtuple\_0\ X1)) \tag{8}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k3\_scm\_inst)\wedge(v1\_compos\_0\ k3\_scm\_inst) \tag{9}$$

Assume the following.

$$(\neg v1\_xboole\_0\ k2\_scmfsa\_i)\wedge(v1\_compos\_0\ k2\_scmfsa\_i) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_xboole\_0\ X0\ X1)\Leftrightarrow(\forall X3.\ (X3 \in X2)\Leftrightarrow((X3 \in X0)\vee(X3 \in X1))) \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2\_tarski\ X0\ X1)\Leftrightarrow(\forall X3.\ (X3 \in X2)\Leftrightarrow((X3 = X0)\vee(X3 = X1))) \tag{12}$$

Assume the following.

$$k2\_scmfsa\_i = k2\_xboole\_0\ (k2\_xboole\_0\ k3\_scm\_inst\ (ReplSep4\ (toset\ (\lambda X0 : \iota.m2\_subset\_1\ X0\ k4\_ordinal1\ (k7\_card\_1\ np\_\_13)))\ (\lambda X0 : \iota.toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ k2\_scm\_inst))\ (\lambda X0 : \iota.\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ k2\_scm\_inst))\ (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.toset\ (\lambda X3 : \iota.m1\_subset\_1\ X3\ k1\_scmfsa\_i))\ (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.X0 \in k2\_tarski\ np\_\_9\ np\_\_10)\ (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.k3\_xtuple\_0\ X0\ k1\_xboole\_0\ (k11\_finseq\_1\ X1\ X3\ X2))))\ (ReplSep3\ (toset\ (\lambda X0 : \iota.m2\_subset\_1\ X0\ k4\_ordinal1\ (k7\_card\_1\ np\_\_13)))\ (\lambda X0 : \iota.toset\ (\lambda X1 : \iota.m1\_subset\_1\ X1\ k2\_scm\_inst))\ (\lambda X0 : \iota.\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ k1\_scmfsa\_i))\ (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.X0 \in k2\_tarski\ np\_\_11\ np\_\_12)\ (\lambda X0 : \iota.\lambda X1 : \iota.\lambda X2 : \iota.k3\_xtuple\_0\ X0\ k1\_xboole\_0\ (k10\_finseq\_1\ X1\ X2))) \tag{13}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k2\_scmfsa\_i)\Rightarrow(\neg(\neg(X0 \in k3\_scm\_inst)\wedge(\neg(k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq k6\_numbers)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_1)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_2)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_3)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_4)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_5)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_6)\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_7)\wedge(k2\_compos\_0\ k2\_scmfsa\_i\ X0\neq np\_\_8)))))))))\wedge((\neg(X0 \in ReplSep4\ (toset\ (\lambda X1 : \iota.m2\_subset\_1\ X1\ k4\_ordinal1\ (k7\_card\_1\ np\_\_13)))\ (\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ k2\_scm\_inst))\ (\lambda X1 : \iota.\lambda X2 : \iota.toset\ (\lambda X3 : \iota.m1\_subset\_1\ X3\ k2\_scm\_inst))\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.toset\ (\lambda X4 : \iota.m1\_subset\_1\ X4\ k1\_scmfsa\_i))\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.\lambda X4 : \iota.X1 \in k2\_tarski\ np\_\_9\ np\_\_10)\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.\lambda X4 : \iota.k3\_xtuple\_0\ X1\ k1\_xboole\_0\ (k11\_finseq\_1\ X2\ X4\ X3)))\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0 = np\_\_9)\vee(k2\_compos\_0\ k2\_scmfsa\_i\ X0 = np\_\_10)))\wedge(\neg(X0 \in ReplSep3\ (toset\ (\lambda X1 : \iota.m2\_subset\_1\ X1\ k4\_ordinal1\ (k7\_card\_1\ np\_\_13)))\ (\lambda X1 : \iota.toset\ (\lambda X2 : \iota.m1\_subset\_1\ X2\ k2\_scm\_inst))\ (\lambda X1 : \iota.\lambda X2 : \iota.toset\ (\lambda X3 : \iota.m1\_subset\_1\ X3\ k1\_scmfsa\_i))\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.X1 \in k2\_tarski\ np\_\_11\ np\_\_12)\ (\lambda X1 : \iota.\lambda X2 : \iota.\lambda X3 : \iota.k3\_xtuple\_0\ X1\ k1\_xboole\_0\ (k10\_finseq\_1\ X2\ X3)))\wedge((k2\_compos\_0\ k2\_scmfsa\_i\ X0 = np\_\_11)\vee(k2\_compos\_0\ k2\_scmfsa\_i\ X0 = np\_\_12)))))$$