t1_lp_space (TMMU5tMuW7vd1mEmV5fM1wd36nR5dFP2zp2)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $v1\_xreal\_0 : \iota \Rightarrow o$ be given. Let $k3\_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_xxreal\_0 : \iota \Rightarrow o$ be given. Let $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np\_\_0 : \iota$ be given. Let $k5\_numbers : \iota$ be given. Let $k9\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_int\_1 : \iota \Rightarrow o$ be given. Let $k4\_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_xboole\_0\ X0) \Rightarrow (X0 = k1\_xboole\_0) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\forall X2.\ (v1\_xreal\_0\ X2) \Rightarrow (\neg(\neg r1\_xxreal\_0\ X0\ k6\_numbers) \wedge ((\neg r1\_xxreal\_0\ X1\ X0) \wedge ((\neg r1\_xxreal\_0\ X2\ k6\_numbers) \wedge (r1\_xxreal\_0\ (k3\_power\ X1\ X2)\ (k3\_power\ X0\ X2)))))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xreal\_0\ X1) \Rightarrow (\neg(\neg\ r1\_xxreal\_0\ X0\ k6\_numbers) \wedge (r1\_xxreal\_0\ (k3\_power\ X0\ X1)\ k6\_numbers))) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_xxreal\_0\ X0) \Rightarrow (\forall X1.(v1\_xxreal\_0\ X1) \Rightarrow (((r1\_xxreal\_0\ X0\ X1) \wedge (r1\_xxreal\_0\ X1\ X0)) \Rightarrow (X0 = X1))) \tag{4}$$

Assume the following.

$$(m2\_subset\_1\ np\_\_0\ k1\_numbers\ k5\_numbers) \wedge ((m1\_subset\_1\ np\_\_0\ k5\_numbers) \wedge (m1\_subset\_1\ np\_\_0\ k1\_numbers)) \tag{5}$$

Assume the following.

$$v1\_xboole\_0\ np\_\_0 \tag{6}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1\ X0\ k1\_numbers)\wedge(m1\_subset\_1\ X1\ k1\_numbers))\Rightarrow(k4\_power\ X0\ X1 = k3\_power\ X0\ X1) \tag{8}$$

Assume the following.

$$\exists X0.(v1\_xboole\_0\ X0)\wedge(v1\_xxreal\_0\ X0) \tag{9}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(\forall X1.(v1\_xreal\_0\ X1)\Rightarrow(\forall X2.(v1\_xreal\_0\ X2)\Rightarrow(((\neg r1\_xxreal\_0\ X0\ k6\_numbers)\Rightarrow((X2 = k3\_power\ X0\ X1)\Leftrightarrow(X2 = k9\_prepower\ X0\ X1)))\wedge(((X0 = k6\_numbers)\Rightarrow((r1\_xxreal\_0\ X1\ k6\_numbers)\vee((X2 = k3\_power\ X0\ X1)\Leftrightarrow(X2 = k6\_numbers))))\wedge((v1\_int\_1\ X1)\Rightarrow((X2 = k3\_power\ X0\ X1)\Leftrightarrow(\exists X3.(v1\_int\_1\ X3)\wedge((X3 = X1)\wedge(X2 = k4\_prepower\ X0\ X3)))))))))) \tag{10}$$

Assume the following.

$$\forall X0.(v1\_xreal\_0\ X0)\Rightarrow(v1\_xxreal\_0\ X0) \tag{11}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(v1\_xreal\_0\ X0) \tag{12}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ k1\_numbers)\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ k1\_numbers)\Rightarrow(\neg(r1\_xxreal\_0\ k6\_numbers\ X0)\wedge((\neg r1\_xxreal\_0\ X1\ X0)\wedge((\neg r1\_xxreal\_0\ X2\ k6\_numbers)\wedge(r1\_xxreal\_0\ (k4\_power\ X1\ X2)\ (k4\_power\ X0\ X2)))))))$$