

t1_radix_4

(TMK13Wg3R833vBzc2qZJzW94zk1kNgvRTCY)

October 27, 2020

Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $k1_radix_1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\neg r1_xxreal_0 (k1_radix_1 X0) k6_numbers) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\neg (r1_xxreal_0 X0 np_2) \wedge ((X0 \neq k6_numbers) \wedge ((X0 \neq np_1) \wedge (X0 \neq np_2)))) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg r1_xxreal_0 (k2_xcmplx_0 X0 X1) X0) \Leftrightarrow (r1_xxreal_0 np_1 X1))) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((\neg r1_xxreal_0 np_1 X0) \Rightarrow (X0 = k6_numbers)) \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \quad (6)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (7)$$

Assume the following.

$$\neg r1_xxreal_0\ np_2\ np_1 \quad (8)$$

Assume the following.

$$\neg r1_xxreal_0\ np_2\ np_0 \quad (9)$$

Assume the following.

$$r1_xxreal_0\ np_1\ np_2 \quad (10)$$

Assume the following.

$$r1_xxreal_0\ np_0\ np_0 \quad (11)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (12)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (13)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((r1_xxreal_0\ np_1\ X0) \Rightarrow (r1_xxreal_0\ np_2\ (k1_radix_1\ X0))) \quad (14)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((r1_xxreal_0\ np_2\ X0) \Rightarrow (r1_xxreal_0\ (k2_xcmplx_0\ np_2\ np_2)\ (k1_radix_1\ X0))) \quad (15)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (m1_subset_1\ (k1_radix_1\ X0)\ k5_numbers) \quad (16)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (k1_radix_1\ X0 = k3_power\ np_2\ X0) \quad (17)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1) \Rightarrow (v7_ordinal1\ X0) \quad (18)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\neg(r1_xxreal_0\ np_2\ X0) \wedge (r1_xxreal_0\ (k1_radix_1\ X0)\ np_2))$$