

t46_pepin
(TMP2hKy1ZmkScwUobedNEdzjSFuS4oaEqPZ)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_pepin : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_nat_d : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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 $k3_int_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $r1_int_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k1_newton X0 np_1 = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k6_nat_d X0 np_1 = np_1) \quad (3)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg r1_xxreal_0 X1 X0) \Rightarrow (k4_nat_d X0 X1 = X0))) \quad (4)$$

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.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (6)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \quad (7)$$

Assume the following.

$$\neg r1_xxreal_0 \text{ } np_1 \text{ } np_0 \quad (8)$$

Assume the following.

$$r1_xxreal_0 \text{ } np_0 \text{ } np_0 \quad (9)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \text{ } X0)\wedge(v7_ordinal1 \text{ } X1))\Rightarrow(\quad (11)$$

$$k6_nat_d \text{ } X0 \text{ } X1 = k3_int_2 \text{ } X0 \text{ } X1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (12)$$

Assume the following.

$$\forall X0.(v1_int_1 \text{ } X0)\Rightarrow(\forall X1.(v1_int_1 \text{ } X1)\Rightarrow((r1_int_2 \quad (13)$$

$$X0 \text{ } X1)\Leftrightarrow(k3_int_2 \text{ } X0 \text{ } X1 = np_1)))$$

Assume the following.

$$\forall X0.(v7_ordinal1 \text{ } X0)\Rightarrow(\forall X1.(v7_ordinal1 \text{ } X1)\Rightarrow((\quad (14)$$

$$r1_int_2 \text{ } X0 \text{ } X1)\Rightarrow((r1_xxreal_0 \text{ } X1 \text{ } np_1)\vee(\forall X2.(m1_subset_1$$

$$X2 \text{ } k5_numbers)\Rightarrow((X2 = k3_pepin \text{ } X0 \text{ } X1)\Leftrightarrow((\neg r1_xxreal_0 \text{ } X2 \text{ } k6_numbers)\wedge$$

$$((k4_nat_d (k1_newton \text{ } X0 \text{ } X2) \text{ } X1 = np_1)\wedge(\forall X3.(v7_ordinal1$$

$$X3)\Rightarrow((k4_nat_d (k1_newton \text{ } X0 \text{ } X3) \text{ } X1 = np_1)\Rightarrow((r1_xxreal_0 \text{ } X3 \text{ } k6_numbers)\vee$$

$$((\neg r1_xxreal_0 \text{ } X2 \text{ } k6_numbers)\wedge(r1_xxreal_0 \text{ } X2 \text{ } X3))))))))))$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \text{ } X0)\wedge(v7_ordinal1 \text{ } X1))\Rightarrow(\quad (15)$$

$$k6_nat_d \text{ } X0 \text{ } X1 = k6_nat_d \text{ } X1 \text{ } X0)$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k4_ordinal1)\Rightarrow(v7_ordinal1 \text{ } X0) \quad (16)$$

Assume the following.

$$\forall X0.(v1_xreal_0 \text{ } X0)\Rightarrow(v1_xcmplx_0 \text{ } X0) \quad (17)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \text{ } X0)\Rightarrow(v1_xreal_0 \text{ } X0) \quad (18)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \text{ } X0)\Rightarrow(v1_int_1 \text{ } X0) \quad (19)$$

Theorem 1

$$\forall X0. (v7_ordinal1\ X0) \Rightarrow ((\neg r1_xreal_0\ X0\ np_1) \Rightarrow (k3_pepin\ np_1\ X0 = np_1))$$