

t60_prepower
(TMFxeho7aYct6tdFMLo3HZyf2gXCh4wJh43)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_rat_1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k6_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_rat_1 : \iota \Rightarrow \iota$ be given. Let $k4_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k2_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_rat_1 : \iota \Rightarrow \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow ((r1_xxreal_0 X0 X1) \Rightarrow ((r1_xxreal_0 X0 k6_numbers) \vee \\ & (r1_xxreal_0 (k1_newton X0 X2) (k1_newton X1 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow ((r1_xxreal_0 k6_numbers X0) \Rightarrow (X0 \in k5_numbers)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_rat_1 X0) \Rightarrow ((\neg(\neg r1_xxreal_0 k6_numbers X0) \wedge (r1_xxreal_0 \\ & k6_numbers (k2_rat_1 X0))) \wedge (\neg(\neg r1_xxreal_0 k6_numbers (k2_rat_1 \\ & X0)) \wedge (r1_xxreal_0 k6_numbers X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (k4_prepower X0 X1 = k1_newton X0 X1)) \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(m2_subset_1 X1 k1_numbers \\ k5_numbers) \Rightarrow ((r1_xxreal_0 np_1 X0) \wedge (r1_xxreal_0 np_1 X1)) \Rightarrow \\ ((r1_xxreal_0 np_1 (k2_prepower X1 X0)) \wedge (r1_xxreal_0 (k2_prepower \\ X1 X0) X0))) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (r1_xxreal_0 np_1 (k1_rat_1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (k2_newton np_1 X0 = np_1) \quad (9)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (10)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (11)$$

Assume the following.

$$\neg r1_xxreal_0 np_1 np_0 \quad (12)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (13)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (14)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k1_numbers) \wedge (v7_ordinal1 \\ X1)) \Rightarrow (k2_newton X0 X1 = k1_newton X0 X1) \quad (15)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0 X0) \wedge (v1_int_1 X1)) \Rightarrow (v1_xreal_0 \\ (k4_prepower X0 X1)) \quad (17)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (v1_int_1 (k2_rat_1 X0)) \quad (18)$$

Assume the following.

$$\forall X0.(v1_rat_1 X0) \Rightarrow (m2_subset_1 (k1_rat_1 X0) k1_numbers \quad (19)$$

$$k5_numbers)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_rat_1 X1) \Rightarrow (k6_prepower \quad (20)$$

$$X0 X1 = k2_prepower (k1_rat_1 X1) (k4_prepower X0 (k2_rat_1 X1))))$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (21)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow \quad (22)$$

$$(v7_ordinal1 X1))$$

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_rat_1 X1) \Rightarrow (((r1_xxreal_0 \quad (23)$$

$$np_1 X0) \wedge (r1_xxreal_0 k6_numbers X1)) \Rightarrow (r1_xxreal_0 np_1 (k6_prepower$$

$$X0 X1))))$$