

t7_power
(TMSrU8NRayuVuCzdaCqK9nr1r83jwpybK9a)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (2)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0 X0) \wedge (v1_xxreal_0 X1)) \Rightarrow (r1_xxreal_0 X0 X0) \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xxreal_0 X0) \wedge (v1_xreal_0 X0))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(v1_xreal_0\ X1))\Rightarrow(v1_xreal_0\ (k2_prepower\ X0\ X1)) \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v1_xreal_0\ X1)\Rightarrow((r1_xxreal_0 \\ np_1\ X0)\Rightarrow(\forall X2.(v1_xreal_0\ X2)\Rightarrow(((\neg r1_xxreal_0\ X1\ k6_numbers)\Rightarrow \\ ((X2 = k2_prepower\ X0\ X1)\Leftrightarrow((k1_newton\ X2\ X0 = X1)\wedge(\neg r1_xxreal_0 \\ X2\ k6_numbers))))\wedge((X1 = k6_numbers)\Rightarrow((X2 = k2_prepower\ X0\ X1)\Leftrightarrow \\ (X2 = k6_numbers)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.(v1_xreal_0\ X1)\Rightarrow(((\\ (r1_xxreal_0\ k6_numbers\ X1)\wedge(r1_xxreal_0\ np_1\ X0))\Rightarrow(k1_power \\ X0\ X1 = k2_prepower\ X0\ X1))\wedge(\neg(\neg r1_xxreal_0\ k6_numbers\ X1)\wedge(\neg \\ v1_abian\ X0)\wedge(k1_power\ X0\ X1\neq k4_xcmplx_0\ (k2_prepower\ X0\ (k4_xcmplx_0 \\ X1)))))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0\ X0)\wedge(v1_xxreal_0\ X1))\Rightarrow(\\ (r1_xxreal_0\ X0\ X1)\vee(r1_xxreal_0\ X1\ X0)) \quad (11)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (12)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xxreal_0\ X0) \quad (13)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xreal_0\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ k5_numbers)\Rightarrow \\ (((r1_xxreal_0\ k6_numbers\ X0)\wedge(r1_xxreal_0\ np_1\ X1))\Rightarrow(r1_xxreal_0 \\ k6_numbers\ (k1_power\ X1\ X0)))) \end{aligned}$$