

t5_power
(TMN7Q3WqZN4aEQ8mLheLJ8x2xcy99XgriYT)

October 27, 2020

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 $k2_power : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ 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 $k1_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ 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.

$$(m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \quad (2)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (3)$$

Assume the following.

$$r1_xxreal_0 np_0 np_0 \quad (4)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (m1_subset_1 X1 k1_numbers)) \Rightarrow (k2_power X0 X1 = k1_power X0 X1) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v1_xreal_0 X1) \Rightarrow ((r1_xxreal_0 \\ & np_1 X0) \Rightarrow (\forall X2.(v1_xreal_0 X2) \Rightarrow (((\neg r1_xxreal_0 X1 k6_numbers) \Rightarrow \\ & ((X2 = k2_prepower X0 X1) \Leftrightarrow ((k1_newton X2 X0 = X1) \wedge (\neg r1_xxreal_0 \\ & X2 k6_numbers)))))) \wedge ((X1 = k6_numbers) \Rightarrow ((X2 = k2_prepower X0 X1) \Leftrightarrow \\ & (X2 = k6_numbers)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0) \Rightarrow (\forall X1.(v1_xreal_0\ X1) \Rightarrow (((\\ (r1_xxreal_0\ k6_numbers\ X1) \wedge (r1_xxreal_0\ np_1\ X0)) \Rightarrow (k1_power \\ X0\ X1 = k2_prepower\ X0\ X1)) \wedge (\neg(\neg r1_xxreal_0\ k6_numbers\ X1) \wedge (\neg \\ v1_abian\ X0) \wedge (k1_power\ X0\ X1 \neq k4_xcmplx_0\ (k2_prepower\ X0\ (k4_xcmplx_0 \\ X1))))))))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (v1_xreal_0\ X0) \quad (9)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow ((r1_xxreal_0\ np_1\ X0) \Rightarrow (k2_power\ X0\ k6_numbers = k6_numbers))$$