

t10_power

(TMEtP11Kp21UGZd8peeYTwgE7gtbLGEijax)

October 27, 2020

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 $v1_abian : \iota \Rightarrow o$ be given. Let $k1_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. 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 $k6_numbers : \iota$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg \\ \neg(r1_xxreal_0 np_1 X1) \wedge (r1_xxreal_0 k6_numbers X0)) \wedge (v1_abian \\ X1)) \Rightarrow ((k1_newton (k1_power X1 X0) X1 = X0) \wedge (k1_power X1 (k1_newton \\ X0 X1) = X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow \\ ((\neg(v1_abian X1) \Rightarrow (k1_newton (k4_xcmplx_0 X0) X1 = k4_xcmplx_0 (\\ k1_newton X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k4_xcmplx_0 (k4_xcmplx_0 X0) = X0) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow ((v1_xcmplx_0 (k4_xcmplx_0 X0)) \wedge \\ (v1_xreal_0 (k4_xcmplx_0 X0))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v1_xreal_0 X1)) \Rightarrow (v1_xreal_0 \\ (k1_power X0 X1)) \end{aligned} \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xcmplx_0\ X0) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xreal_0\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ k5_numbers)\Rightarrow \\ & ((\neg v1_abian\ X1)\Rightarrow(k1_power\ X1\ X0 = k4_xcmplx_0\ (k1_power\ X1\ (k4_xcmplx_0 \\ & \quad X0))))) \end{aligned}$$