

t38_prepower (TMd- dbP4MKeWbSB7H7xxS1nwsE7ZE8GGvaa1)

October 27, 2020

Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k4_prepower : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k1_int_2 : \iota \Rightarrow \iota$ be given. Let $k16_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\neg(k6_numbers \neq X0) \wedge (k6_numbers = k1_newton X0 X1))) \quad (1)$$

Assume the following.

$$k5_xcmplx_0 k6_numbers = k6_numbers \quad (2)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow (k1_int_2 X0 = k16_complex1 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k5_xcmplx_0 (k5_xcmplx_0 X0) = X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (v1_xcmplx_0 (k1_newton X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.(v1_int_1 X0) \Rightarrow ((v7_ordinal1 (k16_complex1 X0)) \wedge (v1_xreal_0 (k16_complex1 X0))) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (((r1_xxreal_0 \\ k6_numbers X1) \Rightarrow (k4_prepower X0 X1 = k1_newton X0 (k1_int_2 X1))) \wedge \\ ((\neg r1_xxreal_0 k6_numbers X1) \Rightarrow (k4_prepower X0 X1 = k5_xcmplx_0 \\ (k1_newton X0 (k1_int_2 X1)))))) \end{aligned} \quad (7)$$

Assume the following.

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

Theorem 1

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.(v1_int_1 X1) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge (k4_prepower X0 X1 = k6_numbers)))$$