

t4_polyeq_4
(TMMh9KULifPHPq9Mb2VuyQUssZwQjRYLvsD)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (&(\neg(\neg r1_xreal_0 k6_numbers X0) \wedge \\ &(r1_xreal_0 (k4_xcmplx_0 X0) k6_numbers)) \wedge (\neg(\neg r1_xreal_0 \\ &(k4_xcmplx_0 X0) k6_numbers) \wedge (r1_xreal_0 k6_numbers X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (&\forall X1.(v7_ordinal1 X1) \Rightarrow ((\neg \\ &(\neg(r1_xreal_0 np_1 X1) \wedge (r1_xreal_0 k6_numbers X0)) \wedge (v1_abian \\ &X1)) \Rightarrow ((k1_newton (k1_power X1 X0) X1 = X0) \wedge (k1_power X1 (k1_newton \\ &X0 X1) = X0)))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (&\forall X1.(m1_subset_1 X1 k5_numbers) \Rightarrow \\ &((v1_abian X1) \Rightarrow (k1_newton (k4_xcmplx_0 X0) X1 = k1_newton X0 X1))) \end{aligned} \quad (4)$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1\ X0)\wedge(m1_subset_1\ X1\ k1_numbers))\Rightarrow (k2_power\ X0\ X1 = k1_power\ X0\ X1) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1\ X0\ k1_numbers)\wedge(v7_ordinal1\ X1))\Rightarrow(k2_newton\ X0\ X1 = k1_newton\ X0\ X1) \quad (8)$$

Assume the following.

$$\exists X0.(v1_xboole_0\ X0)\wedge((v1_xcmplx_0\ X0)\wedge((v1_xxreal_0\ X0)\wedge(v1_xreal_0\ X0))) \quad (9)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0\ X0)\Rightarrow(k4_xcmplx_0\ (k4_xcmplx_0\ X0) = X0) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow((v1_xcmplx_0\ (k4_xcmplx_0\ X0))\wedge(v1_xreal_0\ (k4_xcmplx_0\ X0))) \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xxreal_0\ X0)\wedge(v1_xxreal_0\ X1))\Rightarrow((r1_xxreal_0\ X0\ X1)\vee(r1_xxreal_0\ X1\ X0)) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (13)$$

Assume the following.

$$\forall X0.(v1_xreal_0\ X0)\Rightarrow(v1_xxreal_0\ X0) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xcmplx_0\ X0) \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xreal_0\ X0) \quad (16)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(\forall X1.(m1_subset_1\ X1\ k1_numbers)\Rightarrow(\forall X2.(m1_subset_1\ X2\ k5_numbers)\Rightarrow(\neg(\neg r1_xxreal_0\ X0\ k6_numbers)\wedge((v1_abian\ X2)\wedge((r1_xxreal_0\ np_1\ X2)\wedge((k2_newton\ X1\ X2 = X0)\wedge((X1\neq k2_power\ X2\ X0)\wedge(X1\neq k4_xcmplx_0\ (k2_power\ X2\ X0))))))))))$$