

t10_polyeq_4
(TMS4bEiw23pi31u56QZkWR3m3orwf4j3mEH)

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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 $k6_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k4_polyeq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ 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 $k2_power : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ 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.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 X1 k1_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_numbers) \Rightarrow (\neg(X0 \neq k6_numbers) \wedge ((k4_polyeq_1 X0 X1 k6_numbers X2 = k6_numbers) \wedge (X2 \neq k6_numbers) \wedge (X2 \neq k4_xcmplx_0 (k7_xcmplx_0 X1 X0))))))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow ((\neg(\neg r1_xxreal_0 k6_numbers X0) \wedge (r1_xxreal_0 (k4_xcmplx_0 X0) k6_numbers)) \wedge (\neg(\neg r1_xxreal_0 (k4_xcmplx_0 X0) k6_numbers) \wedge (r1_xxreal_0 k6_numbers X0))) \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 X1 k1_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k5_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 X0 k6_numbers) \wedge ((v1_abian X2) \wedge ((r1_xxreal_0 np_1 X2) \wedge ((k2_newton X1 X2 = X0) \wedge ((X1 \neq k2_power X2 X0) \wedge (X1 \neq k4_xcmplx_0 (k2_power X2 X0)))))))))) \quad (4)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (5)$$

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.

$$\forall X0.\forall X1.((m1_subset_1\ X0\ k1_numbers)\wedge(v7_ordinal1\ X1))\Rightarrow(k2_newton\ X0\ X1 = k1_newton\ X0\ X1) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xreal_0\ X0)\wedge(v1_xreal_0\ X1))\Rightarrow(v1_xreal_0\ (k7_xcmplx_0\ X0\ X1)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1\ X0\ k1_numbers)\wedge(v7_ordinal1\ X1))\Rightarrow(m1_subset_1\ (k2_newton\ X0\ X1)\ k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(v1_xreal_0\ X0) \quad (11)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ k1_numbers)\Rightarrow(\forall X1.(m1_subset_1\ X1\ k1_numbers)\Rightarrow(\forall X2.(m1_subset_1\ X2\ k1_numbers)\Rightarrow(\forall X3. \\ & (m1_subset_1\ X3\ k5_numbers)\Rightarrow(\neg(X0\neq k6_numbers)\wedge(\neg r1_xreal_0\ k6_numbers\ (k7_xcmplx_0\ X1\ X0))\wedge((v1_abian\ X3)\wedge(r1_xreal_0 \\ & np_1\ X3)\wedge((k4_polyeq_1\ X0\ X1\ k6_numbers\ (k2_newton\ X2\ X3) = k6_numbers)\wedge \\ & ((X2\neq k6_numbers)\wedge((X2\neq k1_power\ X3\ (k4_xcmplx_0\ (k7_xcmplx_0\ X1\ X0)))\wedge(X2\neq k4_xcmplx_0\ (k1_power\ X3\ (k4_xcmplx_0\ (k7_xcmplx_0\ X1\ X0)))))))))))))) \end{aligned}$$