

t9\_polyeq\_4 (TM-  
bLn8xcoYiaEu4bPbmQWv8y9sj6MMbSpsM)

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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  $v1\_abian : \iota \Rightarrow o$  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  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  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  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k1\_numbers) \Rightarrow (\neg(X0 \neq \\ & k6\_numbers) \wedge ((k4\_polyeq\_1 X0 X1 k6\_numbers X2 = k6\_numbers) \wedge ( \\ & X2 \neq k6\_numbers) \wedge (X2 \neq k4\_xcmplx\_0 (k7\_xcmplx\_0 X1 X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((\neg \\ & (\neg(r1\_xxreal\_0 np\_1 X1) \wedge (r1\_xxreal\_0 k6\_numbers X0)) \wedge (v1\_abian \\ & X1)) \Rightarrow ((k1\_newton (k1\_power X1 X0) X1 = X0) \wedge (k1\_power X1 (k1\_newton \\ & X0 X1) = X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7\_ordinal1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 k1\_numbers) \Rightarrow \\ & ((\neg(\neg(X1 = k6\_numbers) \wedge (X0 \neq k6\_numbers)) \wedge (k2\_newton X1 X0 = k6\_numbers)) \wedge \\ & (\neg(k2\_newton X1 X0 \neq k6\_numbers) \wedge ((X1 = k6\_numbers) \wedge (X0 \neq k6\_numbers)))))) \end{aligned} \quad (3)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((m1\_subset\_1 X0 k1\_numbers) \wedge (v7\_ordinal1 \\ & X1)) \Rightarrow (k2\_newton X0 X1 = k1\_newton X0 X1) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_numbers)\wedge(v7\_ordinal1 X1))\Rightarrow(m1\_subset\_1 (k2\_newton X0 X1) k1\_numbers) \quad (6)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k4\_ordinal1)\Rightarrow(v7\_ordinal1 X0) \quad (7)$$

Assume the following.

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(v1\_xreal\_0 X0) \quad (8)$$

**Theorem 1**

$$\begin{aligned} &\forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1 \\ &X1 k1\_numbers)\Rightarrow(\forall X2.(m1\_subset\_1 X2 k1\_numbers)\Rightarrow(\forall X3. \\ &(m1\_subset\_1 X3 k5\_numbers)\Rightarrow(\neg(X0\neq k6\_numbers)\wedge((\neg v1\_abian \\ &X3)\wedge((k4\_polyeq\_1 X0 X1 k6\_numbers (k2\_newton X2 X3) = k6\_numbers)\wedge \\ &((X2\neq k6\_numbers)\wedge(X2\neq k1\_power X3 (k4\_xcmplx\_0 (k7\_xcmplx\_0 \\ &X1 X0)))))))))) \end{aligned}$$