

t15\_polyeq\_4  
(TMQrJHpddcvbGn56v6KWuQYErjYLZejvPc7)

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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  $k2\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k6\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_4 : \iota$  be given. Let  $v1\_abian : \iota \Rightarrow o$  be given. Let  $k1\_power : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_xcmplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_square\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Let  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Let  $k1\_newton : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_xboole\_0 : \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(v1\_xreal\_0 X0) \Rightarrow (\forall X1.(v7\_ordinal1 X1) \Rightarrow ((\neg \\ (\neg(r1\_xxreal\_0 np\_1 X1) \wedge (r1\_xxreal\_0 k6\_numbers X0)) \wedge (v1\_abian \\ X1)) \Rightarrow ((k1\_newton (k1\_power X1 X0) X1 = X0) \wedge (k1\_power X1 (k1\_newton \\ X0 X1) = X0)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1 \\ X1 k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1 X2 k1\_numbers) \Rightarrow (\forall X3. \\ (m1\_subset\_1 X3 k1\_numbers) \Rightarrow (\neg(k2\_xcmplx\_0 X0 X1 = X2) \wedge ((k3\_xcmplx\_0 \\ X0 X1 = X3) \wedge ((r1\_xxreal\_0 k6\_numbers (k6\_xcmplx\_0 (k5\_square\_1 \\ X2) (k3\_xcmplx\_0 np\_4 X3))) \wedge ((\neg(X0 = k7\_xcmplx\_0 (k2\_xcmplx\_0 \\ X2 (k6\_square\_1 (k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 \\ X3)))) np\_2) \wedge (X1 = k7\_xcmplx\_0 (k6\_xcmplx\_0 X2 (k6\_square\_1 ( \\ k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 X3)))) np\_2)) \wedge \\ (\neg(X0 = k7\_xcmplx\_0 (k6\_xcmplx\_0 X2 (k6\_square\_1 (k6\_xcmplx\_0 \\ (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 X3)))) np\_2) \wedge (X1 = k7\_xcmplx\_0 \\ (k2\_xcmplx\_0 X2 (k6\_square\_1 (k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 \\ np\_4 X3)))) np\_2)))))))))) \end{aligned} \tag{2}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{3}$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((m1\_subset\_1 X0 k1\_numbers)\wedge(v7\_ordinal1 X1))\Rightarrow(k2\_newton X0 X1 = k1\_newton X0 X1) \quad (5)$$

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**

$$\begin{aligned} & \forall X0.(m1\_subset\_1 X0 k1\_numbers)\Rightarrow(\forall X1.(m1\_subset\_1 \\ & X1 k1\_numbers)\Rightarrow(\forall X2.(m1\_subset\_1 X2 k1\_numbers)\Rightarrow(\forall X3. \\ & (m1\_subset\_1 X3 k1\_numbers)\Rightarrow(\forall X4.(m1\_subset\_1 X4 k5\_numbers)\Rightarrow \\ & (\neg(k2\_xcmplx\_0 (k2\_newton X0 X4) (k2\_newton X1 X4) = X2)\wedge((k3\_xcmplx\_0 \\ & (k2\_newton X0 X4) (k2\_newton X1 X4) = X3)\wedge((r1\_xreal\_0 k6\_numbers \\ & (k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 X3))))\wedge(\neg v1\_abian \\ & X4)\wedge(\neg(X0 = k1\_power X4 (k7\_xcmplx\_0 (k2\_xcmplx\_0 X2 (k6\_square\_1 \\ & (k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 X3)))) np\_2))\wedge \\ & (X1 = k1\_power X4 (k7\_xcmplx\_0 (k6\_xcmplx\_0 X2 (k6\_square\_1 (k6\_xcmplx\_0 \\ & (k5\_square\_1 X2) (k3\_xcmplx\_0 np\_4 X3)))) np\_2))\wedge(\neg(X0 = k1\_power \\ & X4 (k7\_xcmplx\_0 (k6\_xcmplx\_0 X2 (k6\_square\_1 (k6\_xcmplx\_0 (k5\_square\_1 \\ & X2) (k3\_xcmplx\_0 np\_4 X3)))) np\_2))\wedge(X1 = k1\_power X4 (k7\_xcmplx\_0 \\ & (k2\_xcmplx\_0 X2 (k6\_square\_1 (k6\_xcmplx\_0 (k5\_square\_1 X2) (k3\_xcmplx\_0 \\ & np\_4 X3)))) np\_2)))))))))) \end{aligned}$$