

t4_polyeq_5 (TMVuXq-
Giz2mTVKaVJRac9kYVFUVVYM2eAgj)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_newton : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((k1_newton X0 np_2 = k3_xcmplx_0 X0 X0) \wedge (k3_square_1 X0 = k1_newton X0 np_2)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k3_square_1 (k6_xcmplx_0 X0 X1) = k2_xcmplx_0 (k6_xcmplx_0 (k3_square_1 X0) (k3_xcmplx_0 (k3_xcmplx_0 np_2 X0) X1)) (k3_square_1 X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k6_xcmplx_0 X0 X1)) \quad (3)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k1_newton (k6_xcmplx_0 X0 X1) np_2 = k2_xcmplx_0 (k6_xcmplx_0 (k1_newton X0 np_2) (k3_xcmplx_0 (k3_xcmplx_0 np_2 X0) X1)) (k1_newton X1 np_2)))$$