

t1_polyeq_1

(TMYPPUigUx6QWnjjewkeo4tdvZ8kat7oCW)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_polyeq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k7_xcmplx_0 (k4_xcmplx_0 X0) X1 = k7_xcmplx_0 X0 (k4_xcmplx_0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k6_xcmplx_0 k6_numbers X0 = k4_xcmplx_0 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcmplx_0 (k6_xcmplx_0 (k2_xcmplx_0 (k3_xcmplx_0 X0 X1) X2) X2) X0)))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k4_xcmplx_0 (k7_xcmplx_0 X0 X1) = k7_xcmplx_0 (k4_xcmplx_0 X0) X1)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow (k1_polyeq_1 X0 X1 X2 = k2_xcmplx_0 (k3_xcmplx_0 X0 X2) X1))) \quad (5)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow ((k1_polyeq_1 X0 X1 X2 = k6_numbers) \Rightarrow ((X0 = k6_numbers) \vee (X2 = k4_xcmplx_0 (k7_xcmplx_0 X1 X0))))))$$