

t6_polyeq_1 (TM- MgQ1TGVqf5jBmyYyFU6wjCcb3NAwwRu)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_quin_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_polyeq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k7_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (\forall X3.(v1_xcmplx_0 X3) \Rightarrow (((k1_quin_1 \\ & X0 X1 X2 = k6_numbers) \wedge (k2_xcmplx_0 (k2_xcmplx_0 (k3_xcmplx_0 \\ & X0 (k3_square_1 X3)) (k3_xcmplx_0 X1 X3)) X2 = k6_numbers)) \Rightarrow ((X0 = \\ & k6_numbers) \vee (X3 = k4_xcmplx_0 (k7_xcmplx_0 X1 (k3_xcmplx_0 np_2 \\ & X0)))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (\forall X3.(v1_xcmplx_0 X3) \Rightarrow (k3_polyeq_1 \\ & X0 X1 X2 X3 = k2_xcmplx_0 (k2_xcmplx_0 (k3_xcmplx_0 X0 (k3_square_1 \\ & X3)) (k3_xcmplx_0 X1 X3)) X2)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (\forall X3.(v1_xcmplx_0 X3) \Rightarrow (((k1_quin_1 \\ & X0 X1 X2 = k6_numbers) \wedge (k3_polyeq_1 X0 X1 X2 X3 = k6_numbers)) \Rightarrow ((\\ & X0 = k6_numbers) \vee (X3 = k4_xcmplx_0 (k7_xcmplx_0 X1 (k3_xcmplx_0 \\ & np_2 X0)))))))))) \end{aligned}$$