

l26_complex1 (TM- dRpEaN6YWxXqsQr9tocNp3unWb8Nw2N7x)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_arytm_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_complex1 : \iota \Rightarrow \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k5_arytm_0 (k3_complex1 X0) (k4_complex1 X0) = X0) \tag{1}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow ((X2 = k2_xcmplx_0 X0 X1) \Rightarrow (k4_complex1 X2 = k7_real_1 (k4_complex1 X0) (k4_complex1 X1)))))) \tag{2}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2.(v1_xcmplx_0 X2) \Rightarrow ((X2 = k2_xcmplx_0 X0 X1) \Rightarrow (k3_complex1 X2 = k7_real_1 (k3_complex1 X0) (k3_complex1 X1)))))) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k2_xcmplx_0 X0 X1)) \tag{4}$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k2_xcmplx_0 X0 X1 = k5_arytm_0 (k7_real_1 (k3_complex1 X0) (k3_complex1 X1)) (k7_real_1 (k4_complex1 X0) (k4_complex1 X1))))$$