

t33_complex2

(TMLtXovcYBD1ArBn1XetV4XiqnsY3ZszNpr)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k1_complex2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_square_1 : \iota \Rightarrow \iota$ be given. Let $k3_complex1 : \iota \Rightarrow \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((X0 = k6_numbers) \Leftrightarrow (k7_real_1 (k5_square_1 (k3_complex1 X0)) (k5_square_1 (k4_complex1 X0)) = k6_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow ((k1_complex2 X0 X0 = k7_real_1 (k8_real_1 (k3_complex1 X0) (k3_complex1 X0)) (k8_real_1 (k4_complex1 X0) (k4_complex1 X0))) \wedge (k1_complex2 X0 X0 = k7_real_1 (k5_square_1 (k3_complex1 X0)) (k5_square_1 (k4_complex1 X0)))) \quad (2)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (v1_xcmplx_0 X0) \quad (3)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow ((k1_complex2 X0 X0 = k6_numbers) \Rightarrow (X0 = k6_numbers))$$