

t49_complex1

(TMJC7eJKxYGiKPXp6suMNxMitp4HzqYCU3z)

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Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $np_1 : \iota$ be given. Let $k3_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_complex1 : \iota \Rightarrow \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k5_square_1 : \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k16_complex1 : \iota \Rightarrow \iota$ be given. Let $c5_xreal_0 : \iota$ be given. Let $k1_arytm_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $c3_xreal_0 : \iota$ be given. Assume the following.

$$(k3_complex1\ k7_complex1 = k6_numbers) \wedge (k4_complex1\ k7_complex1 = np_1) \tag{1}$$

Assume the following.

$$k7_square_1\ np_1 = np_1 \tag{2}$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$(m2_subset_1\ np_0\ k1_numbers\ k5_numbers) \wedge ((m1_subset_1\ np_0\ k5_numbers) \wedge (m1_subset_1\ np_0\ k1_numbers)) \tag{4}$$

Assume the following.

$$k3_xcmplx_0\ np_1\ np_1 = np_1 \tag{5}$$

Assume the following.

$$k3_xcmplx_0\ np_0\ np_0 = np_0 \tag{6}$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ (k4_xcmplx_0 \ np_1) = np_0 \quad (7)$$

Assume the following.

$$k2_xcmplx_0 \ np_0 \ np_1 = np_1 \quad (8)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 \ X0 \ k1_numbers) \wedge (v1_xreal_0 \ X1)) \Rightarrow (k7_real_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (9)$$

Assume the following.

$$k7_complex1 = k1_xcmplx_0 \quad (10)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (11)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (k5_square_1 \ X0 = k3_square_1 \ X0) \quad (12)$$

Assume the following.

$$\forall X0. (v1_xcmplx_0 \ X0) \Rightarrow (k17_complex1 \ X0 = k16_complex1 \ X0) \quad (13)$$

Assume the following.

$$(c5_xreal_0 = k4_xcmplx_0 \ np_1) \wedge (k1_arytm_0 \ c3_xreal_0 \ c5_xreal_0 = k6_numbers) \quad (14)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ (k4_xcmplx_0 \ np_1) = k6_numbers \quad (15)$$

Assume the following.

$$v1_xcmplx_0 \ k1_xcmplx_0 \quad (16)$$

Assume the following.

$$\forall X0. (v1_xcmplx_0 \ X0) \Rightarrow (k3_square_1 \ X0 = k3_xcmplx_0 \ X0 \ X0) \quad (17)$$

Assume the following.

$$\forall X0. (v1_xcmplx_0 \ X0) \Rightarrow (k16_complex1 \ X0 = k7_square_1 \ (k7_real_1 \ (k5_square_1 \ (k3_complex1 \ X0)) \ (k5_square_1 \ (k4_complex1 \ X0)))) \quad (18)$$

Assume the following.

$$\forall X_0.(m1_subset_1 X_0 k1_numbers) \Rightarrow (v1_xreal_0 X_0) \quad (19)$$

Assume the following.

$$\forall X_0.(m1_subset_1 X_0 k1_numbers) \Rightarrow (v1_xcmplx_0 X_0) \quad (20)$$

Theorem 1 $k17_complex1 k7_complex1 = np_1$.