

t31_complex1

(TMLZyRjKzR6utox2a4mkcYjwoXkmPLV2Cja)

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Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $k7_complex1 : \iota$ be given. Let $k10_complex1 : \iota \Rightarrow \iota$ 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 $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k14_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k6_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1_xboole_0 \ X0) \Rightarrow (X0 = k1_xboole_0) \tag{2}$$

Assume the following.

$$(k3_complex1 \ k6_numbers = k6_numbers) \wedge (k4_complex1 \ k6_numbers = k6_numbers) \tag{3}$$

Assume the following.

$$k15_complex1 \ k6_numbers = k6_numbers \tag{4}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 \ X0) \Rightarrow ((k3_complex1 \ (k15_complex1 \ X0) = k3_complex1 \ X0) \wedge (k4_complex1 \ (k15_complex1 \ X0) = k1_real_1 \ (k4_complex1 \ X0))) \tag{5}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 \ X0) \Rightarrow (k2_xcmplx_0 \ (k3_complex1 \ X0) \ (k3_xcmplx_0 \ (k4_complex1 \ X0) \ k7_complex1) = X0) \tag{6}$$

Assume the following.

$$k7_complex1 = k1_xcmplx_0 \quad (7)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (8)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k15_complex1 X0 = k14_complex1 X0) \quad (9)$$

Assume the following.

$$\exists X0.(v1_xboole_0 X0) \wedge ((v1_xcmplx_0 X0) \wedge ((v1_xreal_0 X0) \wedge (v1_xreal_0 X0))) \quad (10)$$

Assume the following.

$$v1_xcmplx_0 k1_xcmplx_0 \quad (11)$$

Assume the following.

$$m1_subset_1 k7_complex1 k2_numbers \quad (12)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (m1_subset_1 (k15_complex1 X0) k2_numbers) \quad (13)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (k10_complex1 X0 = k2_xcmplx_0 (k1_real_1 (k3_complex1 X0)) (k3_xcmplx_0 (k1_real_1 (k4_complex1 X0)) k7_complex1)) \quad (14)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k14_complex1 X0 = k6_xcmplx_0 (k3_complex1 X0) (k3_xcmplx_0 (k4_complex1 X0) k7_complex1)) \quad (15)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (v1_xcmplx_0 X0) \quad (16)$$

Theorem 1 $k15_complex1 k7_complex1 = k10_complex1 k7_complex1$.