

t13_xcplx_1
(TMJHUPPN9cSkPEQvqCdW4JoQydhZDZ9X3Kg)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ 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. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k3_xcplx_0 np_2 X0 = k2_xcplx_0 X0 X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xcplx_0 X0) \wedge ((v1_xcplx_0 X1) \wedge (v1_xcplx_0 X2))) \Rightarrow (k2_xcplx_0 (k2_xcplx_0 X0 X1) X2 = k2_xcplx_0 X0 (k2_xcplx_0 X1 X2)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xcplx_0 X0) \wedge ((v1_xcplx_0 X1) \wedge (v1_xcplx_0 X2))) \Rightarrow (k3_xcplx_0 (k2_xcplx_0 X0 X1) X2 = k2_xcplx_0 (k3_xcplx_0 X0 X2) (k3_xcplx_0 X1 X2)) \quad (3)$$

Assume the following.

$$((v2_xreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \quad (4)$$

Assume the following.

$$k2_xcplx_0 np_2 np_2 = np_4 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k2_xcplx_0 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xcplx_0 X0) \quad (7)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_xcmplx_0 \text{ np_4 } X0 = k2_xcmplx_0 \\ (k2_xcmplx_0 (k2_xcmplx_0 X0 X0) X0) X0)$$