

t73_xcplx_1
(TMPas8PwWxnSTSWdrtAcTxKjfSLzdetdgeG)

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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 $np_1 : \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xcplx_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((k7_xcplx_0 np_1 X0 = k7_xcplx_0 np_1 X1) \Rightarrow (X0 = X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 np_1 (k7_xcplx_0 np_1 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 np_1 X0 = k5_xcplx_0 X0) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k5_xcplx_0 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow ((X1 = k5_xcplx_0 X0) \Leftrightarrow (k3_xcplx_0 X0 X1 = np_1))) \wedge ((X0 = k6_numbers) \Rightarrow ((X1 = k5_xcplx_0 X0) \Leftrightarrow (X1 = k6_numbers)))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (k3_xcplx_0 X0 X1 = k3_xcplx_0 X1 X0) \quad (6)$$

Theorem 1

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((k3_xcplx_0 X0 X1 = np_1) \Rightarrow (X0 = k7_xcplx_0 np_1 X1)))$$