

t119_xcplx_1
(TMUvVtC2oLoVqZninv2hHaFec5uJgjPtunC)

October 27, 2020

Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k7_xcplx_0 X0 (k7_xcplx_0 X1 X2) = k3_xcplx_0 \\ & X2 (k7_xcplx_0 X0 X1)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 (k2_xcplx_0 (k2_xcplx_0 X0 X0) X0) np_3 = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 k6_numbers X0 = k6_numbers) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k2_xcplx_0 X0 k6_numbers = X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k3_xcplx_0 np_3 X0 = k2_xcplx_0 (k2_xcplx_0 X0 X0) X0) \quad (5)$$

Assume the following.

$$k2_xcplx_0 np_2 np_1 = np_3 \quad (6)$$

Assume the following.

$$k2_xcplx_0 np_1 np_1 = np_2 \quad (7)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k7_xcmplx_0 X0 X0 = np_1)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k7_xcmplx_0 X0 X1)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k3_xcmplx_0 X0 X1)) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcmplx_0 X0) \wedge (v1_xcmplx_0 X1)) \Rightarrow (v1_xcmplx_0 (k2_xcmplx_0 X0 X1)) \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k2_xcmplx_0 \\ (k2_xcmplx_0 (k7_xcmplx_0 X0 (k3_xcmplx_0 np_3 X1)) (k7_xcmplx_0 \\ X0 (k3_xcmplx_0 np_3 X1))) (k7_xcmplx_0 X0 (k3_xcmplx_0 np_3 \\ X1)) = k7_xcmplx_0 X0 X1)) \end{aligned}$$