

t183_xcplx_1
(TMXzM6YHucPgxWaqowpHGGncvVQvJr2AQ4n)

October 27, 2020

Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (X0 = k2_xcplx_0 (k2_xcplx_0 (k4_xcplx_0 X1) X0) X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k3_xcplx_0 np_2 X0 = k2_xcplx_0 X0 X0) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k2_xcplx_0 (k4_xcplx_0 X0) (k3_xcplx_0 np_2 X0) = X0)$$