

t195_xcplx_1
(TMUutCiYi4ovuFBynNHAW2Qkd25vDxTseSk)

October 27, 2020

Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

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

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k4_xcplx_0 (k7_xcplx_0 (k4_xcplx_0 X0) X1) = k7_xcplx_0 X0 X1)) \quad (2)$$

Assume the following.

$$k4_xcplx_0 (k4_xcplx_0 np_1) = np_1 \quad (3)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \quad (5)$$

Theorem 1

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((k7_xcplx_0 X0 X1 = k4_xcplx_0 np_1) \Rightarrow ((X0 = k4_xcplx_0 X1) \wedge (X1 = k4_xcplx_0 X0))))$$