

t220_xcplx_1 (TM-
MyUPDsrgn6NbUHsGEGQAequQNzoE349X2)

October 27, 2020

Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_xcplx_0 : \iota \Rightarrow \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 np_1 X0 = k5_xcplx_0 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k3_xcplx_0 (k7_xcplx_0 np_1 X0) (k7_xcplx_0 \\ & X1 X2) = k7_xcplx_0 X1 (k3_xcplx_0 X2 X0)))) \end{aligned} \quad (2)$$

Assume the following.

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

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k3_xcplx_0 (k5_xcplx_0 X0) (k7_xcplx_0 \\ & X1 X2) = k7_xcplx_0 X1 (k3_xcplx_0 X0 X2)))) \end{aligned}$$