

t122_xcplx_1
(TMHypv3g31EdU8TE6Ctu9v6W5EtAiK7hLfP)

October 27, 2020

Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k6_xcplx_0 (k7_xcplx_0 X0 X1) (k7_xcplx_0 \\ & X2 X1) = k7_xcplx_0 (k6_xcplx_0 X0 X2) X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k6_xcplx_0 X0 X1)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (\forall X3.(v1_xcplx_0 X3) \Rightarrow (k7_xcplx_0 \\ & (k6_xcplx_0 (k6_xcplx_0 X0 X1) X2) X3 = k6_xcplx_0 (k6_xcplx_0 \\ & (k7_xcplx_0 X0 X3) (k7_xcplx_0 X1 X3)) (k7_xcplx_0 X2 X3)))))) \end{aligned}$$