

t30_xcplx_1
(TMH6yi6E8iSGFRi5vyV6rh1X9qdJ8BLU6nG)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k6_xcplx_0 (k2_xcplx_0 X0 X1) X2 = k2_xcplx_0 \\ & (k6_xcplx_0 X0 X2) X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (\\ & k2_xcplx_0 X0 X1 = k2_xcplx_0 X1 X0) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k2_xcplx_0 (k6_xcplx_0 X0 X1) X2 = k2_xcplx_0 \\ & (k6_xcplx_0 X2 X1) X0))) \end{aligned}$$