

t170_xcplx_1 (TM-
LQER8rsT4M1VFGJHm13sNZmdBfwVUodPT)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ 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.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k4_xcplx_0 (k6_xcplx_0 (k6_xcplx_0 X0 X1) \\ & X2) = k2_xcplx_0 (k2_xcplx_0 (k4_xcplx_0 X0) X1) X2))) \end{aligned} \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k6_xcplx_0 X0 X1)) \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k4_xcplx_0 (k2_xcplx_0 (k2_xcplx_0 (k4_xcplx_0 \\ & X0) X1) X2) = k6_xcplx_0 (k6_xcplx_0 X0 X1) X2))) \end{aligned}$$