

t40_xcplx_1
(TMch2Mnmtebq5mXdFTh9RxtFc45CoRttt11)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k3_xcplx_0 X0 (k2_xcplx_0 X1 X2) = k2_xcplx_0 \\ & (k3_xcplx_0 X0 X1) (k3_xcplx_0 X0 X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (X0 = k2_xcplx_0 (k6_xcplx_0 X0 X1) X1)) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (k2_xcplx_0 X0 (k4_xcplx_0 X1) = k6_xcplx_0 X0 X1) \quad (3)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k6_xcplx_0 X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k3_xcplx_0 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k6_xcplx_0 X0 X1 = k2_xcplx_0 X0 (k4_xcplx_0 X1))) \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmplx_0 X2) \Rightarrow (k3_xcmplx_0 X0 (k6_xcmplx_0 X1 X2) = k6_xcmplx_0 \\ & (k3_xcmplx_0 X0 X1) (k3_xcmplx_0 X0 X2)))) \end{aligned}$$