

t19_xcplx_1
 (TMcsN4gpYDdXcjRbDn6S5twoacskW7Lzmyz)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ 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.

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

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k6_xcplx_0 \\ & X0 X1 = k2_xcplx_0 X0 (k4_xcplx_0 X1))) \end{aligned} \tag{3}$$

Theorem 1

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