

t114_xcplx_1
(TMK7Ct9FBbjt7JXPt4Ge6hqh2Zf4EAPH4x2)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k7_xcplx_0 X0 (k7_xcplx_0 X1 X2) = k3_xcplx_0 \\ & X2 (k7_xcplx_0 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k2_xcplx_0 (k7_xcplx_0 X0 X1) (k7_xcplx_0 \\ & X2 X1) = k7_xcplx_0 (k2_xcplx_0 X0 X2) X1))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((\\ & X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcplx_0 X1 (k7_xcplx_0 X0 X0)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (\\ & v1_xcplx_0 (k2_xcplx_0 X0 X1)) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k2_xcplx_0 X1 X2 = k3_xcplx_0 \\ & X0 (k2_xcplx_0 (k7_xcplx_0 X1 X0) (k7_xcplx_0 X2 X0)))))) \end{aligned}$$