

t126_xcmlx_1 (TMMLfsFkfeL-
wEDny7VQHCu1hq3SWuT6n5AQ)

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Let $v1_xcmlx_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k6_xcmlx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcmlx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmlx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcmlx_0 X0) \Rightarrow (\forall X1.(v1_xcmlx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmlx_0 X2) \Rightarrow (k6_xcmlx_0 (k7_xcmlx_0 X0 X1) (k7_xcmlx_0 \\ & X2 X1) = k7_xcmlx_0 (k6_xcmlx_0 X0 X2) X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcmlx_0 X0) \Rightarrow (\forall X1.(v1_xcmlx_0 X1) \Rightarrow ((\\ & X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcmlx_0 (k3_xcmlx_0 X1 X0) X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xcmlx_0 X0) \wedge (v1_xcmlx_0 X1)) \Rightarrow (\\ & v1_xcmlx_0 (k3_xcmlx_0 X0 X1)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcmlx_0 X0) \Rightarrow (\forall X1.(v1_xcmlx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcmlx_0 X2) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k6_xcmlx_0 (k7_xcmlx_0 \\ & X1 X0) X2 = k7_xcmlx_0 (k6_xcmlx_0 X1 (k3_xcmlx_0 X2 X0)) X0)))) \end{aligned}$$