

t129_xcplx_1

(TMTZv1oBcWodWhMwRg9oYZ89uaEp3xsLQQM)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k6_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k6_xcplx_0 (k7_xcplx_0 \\ & X1 X0) X2 = k7_xcplx_0 (k6_xcplx_0 X1 (k3_xcplx_0 X2 X0)) X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((\\ & X0 \neq k6_numbers) \Rightarrow (X1 = k7_xcplx_0 (k3_xcplx_0 X1 X0) X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (\\ & v1_xcplx_0 (k3_xcplx_0 X0 X1)) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k6_xcplx_0 X1 X2 = k7_xcplx_0 \\ & (k6_xcplx_0 (k3_xcplx_0 X1 X0) (k3_xcplx_0 X2 X0)) X0)))) \end{aligned}$$