

t148_xcplx_1

(TMR4LTJ3nTHMrWSDxFAvfQhLf8jFdgkQLv7)

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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 $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ (v1_xcplx_0 X2) \Rightarrow (k6_xcplx_0 (k6_xcplx_0 X0 X1) (k6_xcplx_0 \\ X0 X2) = k6_xcplx_0 X2 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k4_xcplx_0 \\ (k6_xcplx_0 X0 X1) = k6_xcplx_0 X1 X0)) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ (v1_xcplx_0 X2) \Rightarrow (k6_xcplx_0 (k6_xcplx_0 X0 X1) (k6_xcplx_0 \\ X0 X2) = k4_xcplx_0 (k6_xcplx_0 X1 X2)))) \end{aligned}$$