

t102_xcplx_1 (TMQNCnPpgJarCQEXHDzGhb- htD9V3mWGweNy)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k5_xcplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 np_1 X0 = k5_xcplx_0 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k3_xcplx_0 \\ (k5_xcplx_0 X0) (k5_xcplx_0 X1) = k5_xcplx_0 (k3_xcplx_0 X0 \\ X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k3_xcplx_0 X0 X1)) \quad (3)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k3_xcplx_0 \\ (k7_xcplx_0 np_1 X0) (k7_xcplx_0 np_1 X1) = k7_xcplx_0 np_1 \\ (k3_xcplx_0 X0 X1))) \end{aligned}$$