

t206_xcplx_1 (TM- MYsmwRSeH8WdNczNYtdUavanG2yTP4m5W)

October 27, 2020

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

$$\begin{aligned} \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k5_xcplx_0 \\ (k3_xcplx_0 X0 (k5_xcplx_0 X1)) = k3_xcplx_0 (k5_xcplx_0 X0) \\ X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k5_xcplx_0 (k5_xcplx_0 X0) = X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k5_xcplx_0 X0)) \tag{3}$$

Theorem 1

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