

t221_xcplx_1
(TMSfpPNy7itNYpxM3JmXwpdiAJUJyg2r91A)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k3_xcplx_0 (k5_xcplx_0 X0) (k5_xcplx_0 X1) = k5_xcplx_0 (k3_xcplx_0 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k5_xcplx_0 X0)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k7_xcplx_0 X0 X1 = k3_xcplx_0 X0 (k5_xcplx_0 X1))) \quad (3)$$

Theorem 1

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (k7_xcplx_0 (k5_xcplx_0 X0) X1 = k5_xcplx_0 (k3_xcplx_0 X0 X1)))$$