

t177_xcmplx_1
(TMUBrb56fENffdQfLPiq6gsxLiec5uba8j2)

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Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k3_xcmplx_0 (k4_xcmplx_0 X0) (k4_xcmplx_0 X1) = k3_xcmplx_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k3_xcmplx_0 (k4_xcmplx_0 X0) X1 = k4_xcmplx_0 (k3_xcmplx_0 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (v1_xcmplx_0 (k4_xcmplx_0 X0)) \quad (3)$$

Theorem 1

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.(v1_xcmplx_0 X1) \Rightarrow (k4_xcmplx_0 (k3_xcmplx_0 X0 (k4_xcmplx_0 X1)) = k3_xcmplx_0 X0 X1))$$