

t140_xcplx_1 (TM-
cXweig4eR4ByKDQWnBaqUuwTQszNS3oqL)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (k2_xcplx_0 (k4_xcplx_0 X0) (k4_xcplx_0 X1) = k4_xcplx_0 (k2_xcplx_0 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xcplx_0 X0) \Rightarrow (k4_xcplx_0 (k4_xcplx_0 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0. (v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \quad (3)$$

Theorem 1

$$\forall X0. (v1_xcplx_0 X0) \Rightarrow (\forall X1. (v1_xcplx_0 X1) \Rightarrow (k4_xcplx_0 (k2_xcplx_0 (k4_xcplx_0 X0) X1) = k2_xcplx_0 X0 (k4_xcplx_0 X1)))$$