

t160\_xcplx\_1  
(TMT47f7q58RsYLPvsXp3m9k8E6GkeSzgpCa)

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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. Let  $k6\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  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.

$$\forall X0. \forall X1. ((v1\_xcplx\_0 X0) \wedge (v1\_xcplx\_0 X1)) \Rightarrow (k2\_xcplx\_0 X0 (k4\_xcplx\_0 X1) = k6\_xcplx\_0 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0. (v1\_xcplx\_0 X0) \Rightarrow (v1\_xcplx\_0 (k4\_xcplx\_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1\_xcplx\_0 X0) \wedge (v1\_xcplx\_0 X1)) \Rightarrow (k2\_xcplx\_0 X0 X1 = k2\_xcplx\_0 X1 X0) \quad (4)$$

**Theorem 1**

$$\forall X0. (v1\_xcplx\_0 X0) \Rightarrow (\forall X1. (v1\_xcplx\_0 X1) \Rightarrow (k4\_xcplx\_0 (k2\_xcplx\_0 X0 X1) = k6\_xcplx\_0 (k4\_xcplx\_0 X1) X0))$$