

t153\_xcplx\_1  
(TMdjD3uc23VdqFff6fWxYcSwBxpy3FqTCur)

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Let  $v1\_xcplx\_0 : \iota \Rightarrow o$  be given. Let  $k6\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_xcplx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_xcplx\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow (k6\_xcplx\_0 X0 (k6\_xcplx\_0 X0 X1) = X1)) \quad (1)$$

Assume the following.

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

**Theorem 1**

$$\forall X0.(v1\_xcplx\_0 X0) \Rightarrow (\forall X1.(v1\_xcplx\_0 X1) \Rightarrow (\forall X2.(v1\_xcplx\_0 X2) \Rightarrow ((k6\_xcplx\_0 X0 X1 = k2\_xcplx\_0 X0 (k4\_xcplx\_0 X2)) \Rightarrow (X1 = X2))))$$