

l67\_xcmlx\_1 (TMc-  
qbd9WPsZB4oBEXtHnWTHVbTJoXKNKhPo)

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Let  $v1\_xcmlx\_0 : \iota \Rightarrow o$  be given. Let  $k5\_xcmlx\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_xcmlx\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xcmlx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmlx\_0 X1) \Rightarrow (k3\_xcmlx\_0 (k5\_xcmlx\_0 X0) (k5\_xcmlx\_0 X1) = k5\_xcmlx\_0 (k3\_xcmlx\_0 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1\_xcmlx\_0 X0) \Rightarrow (k5\_xcmlx\_0 (k5\_xcmlx\_0 X0) = X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1\_xcmlx\_0 X0) \Rightarrow (v1\_xcmlx\_0 (k5\_xcmlx\_0 X0)) \quad (3)$$

**Theorem 1**

$$\forall X0.(v1\_xcmlx\_0 X0) \Rightarrow (\forall X1.(v1\_xcmlx\_0 X1) \Rightarrow (k5\_xcmlx\_0 (k3\_xcmlx\_0 X0 (k5\_xcmlx\_0 X1)) = k3\_xcmlx\_0 (k5\_xcmlx\_0 X0 X1)))$$