

158_xcmlx_1 (TMHKQQZxUqjb- whVYFZi3H6V8BJ82EfbUben)

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Let $v1_xcmlx_0 : \iota \Rightarrow o$ be given. Let $k5_xcmlx_0 : \iota \Rightarrow \iota$ be given. Let $k7_xcmlx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xcmlx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_xcmlx_0 X0) \wedge (v1_xcmlx_0 X1)) \Rightarrow (k7_xcmlx_0 (k5_xcmlx_0 X0) (k5_xcmlx_0 X1) = k7_xcmlx_0 X1 X0) \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xcmlx_0 X0) \wedge (v1_xcmlx_0 X1)) \Rightarrow (k3_xcmlx_0 (k5_xcmlx_0 X0) (k5_xcmlx_0 X1) = k5_xcmlx_0 (k3_xcmlx_0 X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0. (v1_xcmlx_0 X0) \Rightarrow (v1_xcmlx_0 (k5_xcmlx_0 X0)) \tag{3}$$

Assume the following.

$$\forall X0. (v1_xcmlx_0 X0) \Rightarrow (\forall X1. (v1_xcmlx_0 X1) \Rightarrow (k7_xcmlx_0 X0 X1 = k3_xcmlx_0 X0 (k5_xcmlx_0 X1))) \tag{4}$$

Theorem 1

$$\forall X0. (v1_xcmlx_0 X0) \Rightarrow (\forall X1. (v1_xcmlx_0 X1) \Rightarrow (k5_xcmlx_0 (k7_xcmlx_0 X0 X1) = k7_xcmlx_0 X1 X0))$$