

t95_xcplx_1 (TMUEBFmwNY-
cBkhnAH7RL9M2WTYaRsGZr1su)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k3_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((v1_xcplx_0 X0) \wedge ((v1_xcplx_0 X1) \wedge (v1_xcplx_0 X2))) \Rightarrow (k3_xcplx_0 (k3_xcplx_0 X0 X1) X2 = k3_xcplx_0 X0 (k3_xcplx_0 X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xcplx_0 X0) \Rightarrow (\forall X1. (v1_xcplx_0 X1) \Rightarrow ((X0 \neq k6_numbers) \Rightarrow (k3_xcplx_0 (k7_xcplx_0 X1 X0) X0 = X1))) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k7_xcplx_0 X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (k3_xcplx_0 X0 X1 = k3_xcplx_0 X1 X0) \quad (4)$$

Theorem 1

$$\forall X0. (v1_xcplx_0 X0) \Rightarrow (\forall X1. (v1_xcplx_0 X1) \Rightarrow (\forall X2. (v1_xcplx_0 X2) \Rightarrow (\forall X3. (v1_xcplx_0 X3) \Rightarrow ((k7_xcplx_0 X2 X1 = k7_xcplx_0 X3 X0) \Rightarrow ((X0 = k6_numbers) \vee ((X1 = k6_numbers) \vee (k3_xcplx_0 X2 X0 = k3_xcplx_0 X3 X1))))))))$$