

t2_xcplx_1
(TMVFqrXeHPb8rvemSht1rvdCWFSZ94SyjvD)

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Let $v1_xcplx_0 : \iota \Rightarrow o$ be given. Let $k2_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_xcplx_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k2_xcplx_0 X0 k6_numbers = X0) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_xcplx_0 X0) \wedge ((v1_xcplx_0 X1) \wedge (v1_xcplx_0 X2))) \Rightarrow (k2_xcplx_0 (k2_xcplx_0 X0 X1) X2 = k2_xcplx_0 X0 (k2_xcplx_0 X1 X2)) \quad (2)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (v1_xcplx_0 (k4_xcplx_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow ((X1 = k4_xcplx_0 X0) \Leftrightarrow (k2_xcplx_0 X0 X1 = k6_numbers))) \quad (4)$$

Theorem 1

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2.(v1_xcplx_0 X2) \Rightarrow ((k2_xcplx_0 X0 X1 = k2_xcplx_0 X2 X1) \Rightarrow (X0 = X2))))$$