

t70_xcplx_1

(TMUwDQAjhT2BDDsqJhaJCozexr8xUztEhXs)

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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 $k7_xcplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_4 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $np_2 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xcplx_0 X0) \Rightarrow (k7_xcplx_0 (k2_xcplx_0 (k2_xcplx_0 (k2_xcplx_0 X0) X0) X0) np_4 = X0) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (\forall X3.(v1_xcplx_0 X3) \Rightarrow (k7_xcplx_0 \\ & (k2_xcplx_0 (k2_xcplx_0 X0 X1) X2) X3 = k2_xcplx_0 (k2_xcplx_0 \\ & (k7_xcplx_0 X0 X3) (k7_xcplx_0 X1 X3)) (k7_xcplx_0 X2 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xcplx_0 X0) \Rightarrow (\forall X1.(v1_xcplx_0 X1) \Rightarrow (\forall X2. \\ & (v1_xcplx_0 X2) \Rightarrow (k2_xcplx_0 (k7_xcplx_0 X0 X1) (k7_xcplx_0 \\ & X2 X1) = k7_xcplx_0 (k2_xcplx_0 X0 X2) X1))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$k2_xcplx_0 np_2 np_2 = np_4 \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_xcplx_0 X0) \wedge (v1_xcplx_0 X1)) \Rightarrow (v1_xcplx_0 (k2_xcplx_0 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xcmplx_0 X0) \quad (7)$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow & (k2_xcmplx_0 (k2_xcmplx_0 (k2_xcmplx_0 \\ & (k7_xcmplx_0 X0 np_4) (k7_xcmplx_0 X0 np_4)) (k7_xcmplx_0 X0 \\ & np_4)) (k7_xcmplx_0 X0 np_4) = X0) \end{aligned}$$