

t6_chain_1

(TMU5VAk9DhDTyWE72W3rhdGkmZeWgyUUyh9)

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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 $v1_abian : \iota \Rightarrow o$ be given. Let $k2_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 X0 k5_numbers) \wedge (v7_ordinal1 X1)) \Rightarrow (k2_nat_1 X0 X1 = k2_xcmplx_0 X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (((v1_int_1 X0) \wedge (v1_abian X0)) \wedge ((v1_int_1 X1) \wedge (v1_abian X1))) \Rightarrow (v1_abian (k2_xcmplx_0 X0 X1)) \quad (4)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (((v1_int_1 X0) \wedge (\neg v1_abian X0)) \wedge ((v1_int_1 X1) \wedge (\neg v1_abian X1))) \Rightarrow (v1_abian (k2_xcmplx_0 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0. \forall X1. (((v1_int_1 X0) \wedge (v1_abian X0)) \wedge ((v1_int_1 X1) \wedge (\neg v1_abian X1))) \Rightarrow (\neg v1_abian (k2_xcmplx_0 X1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_int_1 X0)\wedge(v1_abian X0))\wedge((v1_int_1 X1)\wedge(\neg v1_abian X1)))\Rightarrow(\neg v1_abian (k2_xcmplx_0 X0 X1)) \quad (8)$$

Assume the following.

$$m1_subset_1 k5_numbers (k1_zfmisc_1 k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (10)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(v1_int_1 X0) \quad (11)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(v1_xboole_0 X1)) \quad (12)$$

Theorem 1

$$\forall X0.(m2_subset_1 X0 k1_numbers k5_numbers)\Rightarrow(\forall X1.(m2_subset_1 X1 k1_numbers k5_numbers)\Rightarrow(((v1_abian X0)\Leftrightarrow(v1_abian X1))\Leftrightarrow(v1_abian (k2_nat_1 X0 X1))))$$