

t12_chord (TMQWLjDkvr- WnYK6VaS9Mg1AejijEqwRQ56D)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_abian : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_5 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ 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. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1\ X0) \Rightarrow (\neg(r1_xxreal_0\ X0\ np_5) \wedge ((X0 \neq k6_numbers) \wedge ((X0 \neq np_1) \wedge ((X0 \neq np_2) \wedge ((X0 \neq np_3) \wedge ((X0 \neq np_4) \wedge (X0 \neq np_5))))))) \quad (1)$$

Assume the following.

$$((v2_xxreal_0\ np_2) \wedge (m2_subset_1\ np_2\ k1_numbers\ k5_numbers)) \wedge ((m1_subset_1\ np_2\ k5_numbers) \wedge (m1_subset_1\ np_2\ k1_numbers)) \quad (2)$$

Assume the following.

$$((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \quad (3)$$

Assume the following.

$$k3_xcmplx_0\ np_2\ np_2 = np_4 \quad (4)$$

Assume the following.

$$k3_xcmplx_0\ np_2\ np_1 = np_2 \quad (5)$$

Assume the following.

$$k2_xcmplx_0\ np_4\ np_1 = np_5 \quad (6)$$

Assume the following.

$$k2_xcmplx_0\ np_2\ np_1 = np_3 \quad (7)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_1 = np_2 \quad (8)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (9)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.((v1_int_1 \ X0)\wedge(v1_int_1 \ X1))\Rightarrow(v1_int_1 \ (k3_xcmplx_0 \ X0 \ X1)) \quad (11)$$

Assume the following.

$$\forall X0.((v1_int_1 \ X0)\wedge(v1_abian \ X0))\Rightarrow(\neg v1_abian \ (k2_xcmplx_0 \ X0 \ np_1)) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0)\wedge(v7_ordinal1 \ X1))\Rightarrow(v7_ordinal1 \ (k2_xcmplx_0 \ X0 \ X1)) \quad (13)$$

Assume the following.

$$\forall X0.(v1_int_1 \ X0)\Rightarrow(v1_abian \ (k3_xcmplx_0 \ np_2 \ X0)) \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1)\Rightarrow(v7_ordinal1 \ X0) \quad (15)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0)\Rightarrow(v1_int_1 \ X0) \quad (16)$$

Theorem 1

$$\forall X0.((v7_ordinal1 \ X0)\wedge(v1_abian \ X0))\Rightarrow(\neg(r1_xreal_0 \ X0 \ np_5)\wedge((X0\neq k6_numbers)\wedge((X0\neq np_2)\wedge(X0\neq np_4))))$$