

t13_chord

(TMSXqMcif9rP2Cb9uAjkK7sztRHsyLNesm1)

October 27, 2020

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 $np_7 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_6 : \iota$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_5 : \iota$ 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 $np_3 : \iota$ 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 $k4_ordinal1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xxreal_0 X0) \Rightarrow (\forall X1.(v1_xxreal_0 X1) \Rightarrow ((r1_xxreal_0 X0 X1) \wedge (r1_xxreal_0 X1 X0)) \Rightarrow (X0 = X1)) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(v7_ordinal1 X1) \Rightarrow (\neg r1_xxreal_0 (k1_nat_1 X1 np_1) X0) \Leftrightarrow (r1_xxreal_0 X0 X1))) \quad (2)$$

Assume the following.

$$\forall X0.((v7_ordinal1 X0) \wedge (v1_abian X0)) \Rightarrow (\neg (r1_xxreal_0 X0 np_5) \wedge ((X0 \neq k6_numbers) \wedge ((X0 \neq np_2) \wedge (X0 \neq np_4)))) \quad (3)$$

Assume the following.

$$((v2_xxreal_0 np_7) \wedge (m2_subset_1 np_7 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_7 k5_numbers) \wedge (m1_subset_1 np_7 k1_numbers)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 np_6) \wedge (m2_subset_1 np_6 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_6 k5_numbers) \wedge (m1_subset_1 np_6 k1_numbers)) \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_5) \wedge (m2_subset_1 np_5 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_5 k5_numbers) \wedge (m1_subset_1 np_5 k1_numbers)) \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_3) \wedge (m2_subset_1 \ np_3 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_3 \ k5_numbers) \wedge (m1_subset_1 \ np_3 \ k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$k3_xcmplx_0 \ np_2 \ np_3 = np_6 \quad (9)$$

Assume the following.

$$k2_xcmplx_0 \ np_6 \ np_1 = np_7 \quad (10)$$

Assume the following.

$$k2_xcmplx_0 \ np_5 \ np_1 = np_6 \quad (11)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v7_ordinal1 \ X0) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow \\ & (k1_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \end{aligned} \quad (13)$$

Assume the following.

$$\forall X0. ((v1_int_1 \ X0) \wedge (v1_abian \ X0)) \Rightarrow (\neg v1_abian \ (k2_xcmplx_0 \ X0 \ np_1)) \quad (14)$$

Assume the following.

$$\forall X0. (v1_int_1 \ X0) \Rightarrow (v1_abian \ (k3_xcmplx_0 \ np_2 \ X0)) \quad (15)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \quad (16)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_xxreal_0 \ X0) \quad (17)$$

Assume the following.

$$\forall X0. (v7_ordinal1 \ X0) \Rightarrow (v1_int_1 \ X0) \quad (18)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v7_ordinal1 \ X0) \wedge (v1_abian \ X0)) \Rightarrow (\neg (r1_xxreal_0 \\ & X0 \ np_7) \wedge ((X0 \neq k6_numbers) \wedge ((X0 \neq np_2) \wedge ((X0 \neq np_4) \wedge (X0 \neq np_6)))))) \end{aligned}$$