

t19_descip_1

(TMKYiGW47TeNYHSwYoX4uDMYFZNLZJCSa58)

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Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $np_16 : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $np_3 : \iota$ be given. Let $np_4 : \iota$ be given. Let $np_5 : \iota$ be given. Let $np_6 : \iota$ be given. Let $np_7 : \iota$ be given. Let $np_8 : \iota$ be given. Let $np_9 : \iota$ be given. Let $np_10 : \iota$ be given. Let $np_11 : \iota$ be given. Let $np_12 : \iota$ be given. Let $np_13 : \iota$ be given. Let $np_14 : \iota$ be given. Let $np_15 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_nat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_9) \wedge (m2_subset_1 np_9 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_9 k5_numbers) \wedge (m1_subset_1 np_9 k1_numbers)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_8) \wedge (m2_subset_1 np_8 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_8 k5_numbers) \wedge (m1_subset_1 np_8 k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_7) \wedge (m2_subset_1 np_7 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_7 k5_numbers) \wedge (m1_subset_1 np_7 k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_6) \wedge (m2_subset_1 np_6 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_6 k5_numbers) \wedge (m1_subset_1 np_6 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 np_5) \wedge (m2_subset_1 np_5 k1_numbers k5_numbers)) \wedge \\ & ((m1_subset_1 np_5 k5_numbers) \wedge (m1_subset_1 np_5 k1_numbers)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_4) \wedge (m2_subset_1 \ np_4 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_4 \ k5_numbers) \wedge (m1_subset_1 \ np_4 \ k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_3) \wedge (m2_subset_1 \ np_3 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_3 \ k5_numbers) \wedge (m1_subset_1 \ np_3 \ k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_16) \wedge (m2_subset_1 \ np_16 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_16 \ k5_numbers) \wedge (m1_subset_1 \ np_16 \ k1_numbers)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_15) \wedge (m2_subset_1 \ np_15 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_15 \ k5_numbers) \wedge (m1_subset_1 \ np_15 \ k1_numbers)) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_14) \wedge (m2_subset_1 \ np_14 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_14 \ k5_numbers) \wedge (m1_subset_1 \ np_14 \ k1_numbers)) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_13) \wedge (m2_subset_1 \ np_13 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_13 \ k5_numbers) \wedge (m1_subset_1 \ np_13 \ k1_numbers)) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_12) \wedge (m2_subset_1 \ np_12 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_12 \ k5_numbers) \wedge (m1_subset_1 \ np_12 \ k1_numbers)) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_11) \wedge (m2_subset_1 \ np_11 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_11 \ k5_numbers) \wedge (m1_subset_1 \ np_11 \ k1_numbers)) \end{aligned} \quad (16)$$

Assume the following.

$$\begin{aligned} & ((v2_xreal_0 \ np_10) \wedge (m2_subset_1 \ np_10 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_10 \ k5_numbers) \wedge (m1_subset_1 \ np_10 \ k1_numbers)) \end{aligned} \quad (17)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_9 = np_10 \quad (18)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_8 = np_9 \quad (19)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_7 = np_8 \quad (20)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_6 = np_7 \quad (21)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_5 = np_6 \quad (22)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_4 = np_5 \quad (23)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_3 = np_4 \quad (24)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_2 = np_3 \quad (25)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_1 = np_2 \quad (26)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_15 = np_16 \quad (27)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_14 = np_15 \quad (28)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_13 = np_14 \quad (29)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_12 = np_13 \quad (30)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_11 = np_12 \quad (31)$$

Assume the following.

$$k2_xcmplx_0 \ np_1 \ np_10 = np_11 \quad (32)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (33)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (k2_finseq_1 \ X0 = k1_finseq_1 \ X0) \quad (34)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 \ X0) \wedge (m1_subset_1 \ X1 \ k5_numbers)) \Rightarrow (k1_nat_1 \ X0 \ X1 = k2_xcmplx_0 \ X0 \ X1) \quad (35)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 \ X0) \Rightarrow (\forall X1.(v7_ordinal1 \ X1) \Rightarrow (\neg \\ (r1_xxreal_0 \ X0 \ X1) \wedge ((r1_xxreal_0 \ X1 \ (k1_nat_1 \ X0 \ np_15)) \wedge ((\\ X1 \neq X0) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_1) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_2) \wedge ((X1 \neq \\ k1_nat_1 \ X0 \ np_3) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_4) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_5) \wedge \\ ((X1 \neq k1_nat_1 \ X0 \ np_6) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_7) \wedge ((X1 \neq k1_nat_1 \\ X0 \ np_8) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_9) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_10) \wedge (\\ (X1 \neq k1_nat_1 \ X0 \ np_11) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_12) \wedge ((X1 \neq k1_nat_1 \\ X0 \ np_13) \wedge ((X1 \neq k1_nat_1 \ X0 \ np_14) \wedge (X1 \neq k1_nat_1 \ X0 \ np_15))))))))))))))))) \quad (36) \end{aligned}$$

Assume the following.

$$v6_membered \ k4_ordinal1 \quad (37)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (m1_subset_1 \ (k2_finseq_1 \ X0) \ (k1_zfmisc_1 \ k5_numbers)) \quad (38)$$

Assume the following.

$$\forall X0.(v7_ordinal1 \ X0) \Rightarrow (k1_finseq_1 \ X0 = ReplSep \ (toset \ (\\ \lambda X1 : \iota.m2_subset_1 \ X1 \ k1_numbers \ k5_numbers)) \ (\lambda X1 : \iota. \\ (r1_xxreal_0 \ np_1 \ X1) \wedge (r1_xxreal_0 \ X1 \ X0)) \ (\lambda X1 : \iota.X1)) \quad (39)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (40)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v6_membered X1)) \quad (41)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v7_ordinal1 X1)) \quad (42)$$

Theorem 1

$$\forall X0. \neg (X0 \in k2_finseq_1 np_16) \wedge ((X0 \neq np_1) \wedge ((X0 \neq np_2) \wedge ((X0 \neq np_3) \wedge ((X0 \neq np_4) \wedge ((X0 \neq np_5) \wedge ((X0 \neq np_6) \wedge ((X0 \neq np_7) \wedge ((X0 \neq np_8) \wedge ((X0 \neq np_9) \wedge ((X0 \neq np_10) \wedge ((X0 \neq np_11) \wedge ((X0 \neq np_12) \wedge ((X0 \neq np_13) \wedge ((X0 \neq np_14) \wedge ((X0 \neq np_15) \wedge (X0 \neq np_16))))))))))))))))))$$