

l57_descip_1

(TMLAZiuYeA99nSBQKigBmmeGL9dYzu6j5vk)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ 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 $np_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (3)$$

Assume the following.

$$((v2_xxreal_0 np_9) \wedge (m2_subset_1 np_9 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_9 k5_numbers) \wedge (m1_subset_1 np_9 k1_numbers)) \quad (4)$$

Assume the following.

$$((v2_xxreal_0 np_8) \wedge (m2_subset_1 np_8 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_8 k5_numbers) \wedge (m1_subset_1 np_8 k1_numbers)) \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_7) \wedge (m2_subset_1 np_7 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_7 k5_numbers) \wedge (m1_subset_1 np_7 k1_numbers)) \quad (6)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_6) \wedge (m2_subset_1 \ np_6 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_6 \ k5_numbers) \wedge (m1_subset_1 \ np_6 \ k1_numbers)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_5) \wedge (m2_subset_1 \ np_5 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_5 \ k5_numbers) \wedge (m1_subset_1 \ np_5 \ k1_numbers)) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_4) \wedge (m2_subset_1 \ np_4 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_4 \ k5_numbers) \wedge (m1_subset_1 \ np_4 \ k1_numbers)) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_3) \wedge (m2_subset_1 \ np_3 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_3 \ k5_numbers) \wedge (m1_subset_1 \ np_3 \ k1_numbers)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_2) \wedge (m2_subset_1 \ np_2 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_2 \ k5_numbers) \wedge (m1_subset_1 \ np_2 \ k1_numbers)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_1) \wedge (m2_subset_1 \ np_1 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_1 \ k5_numbers) \wedge (m1_subset_1 \ np_1 \ k1_numbers)) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_16) \wedge (m2_subset_1 \ np_16 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_16 \ k5_numbers) \wedge (m1_subset_1 \ np_16 \ k1_numbers)) \end{aligned} \quad (13)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_15) \wedge (m2_subset_1 \ np_15 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_15 \ k5_numbers) \wedge (m1_subset_1 \ np_15 \ k1_numbers)) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_14) \wedge (m2_subset_1 \ np_14 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_14 \ k5_numbers) \wedge (m1_subset_1 \ np_14 \ k1_numbers)) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_13) \wedge (m2_subset_1 \ np_13 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_13 \ k5_numbers) \wedge (m1_subset_1 \ np_13 \ k1_numbers)) \end{aligned} \quad (16)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_12) \wedge (m2_subset_1 \ np_12 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_12 \ k5_numbers) \wedge (m1_subset_1 \ np_12 \ k1_numbers)) \end{aligned} \quad (17)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_11) \wedge (m2_subset_1 \ np_11 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_11 \ k5_numbers) \wedge (m1_subset_1 \ np_11 \ k1_numbers)) \end{aligned} \quad (18)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0 \ np_10) \wedge (m2_subset_1 \ np_10 \ k1_numbers \ k5_numbers)) \wedge \\ & ((m1_subset_1 \ np_10 \ k5_numbers) \wedge (m1_subset_1 \ np_10 \ k1_numbers)) \end{aligned} \quad (19)$$

Assume the following.

$$\begin{aligned} & (m2_subset_1 \ np_0 \ k1_numbers \ k5_numbers) \wedge ((m1_subset_1 \ np_0 \\ & \quad k5_numbers) \wedge (m1_subset_1 \ np_0 \ k1_numbers)) \end{aligned} \quad (20)$$

Assume the following.

$$v1_xboole_0 \ np_0 \quad (21)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_9 \quad (22)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_8 \quad (23)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_7 \quad (24)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_6 \quad (25)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_5 \quad (26)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_4 \quad (27)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_3 \quad (28)$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_2 \tag{29}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_15 \tag{30}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_14 \tag{31}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_13 \tag{32}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_12 \tag{33}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_11 \tag{34}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_10 \tag{35}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_1 \tag{36}$$

Assume the following.

$$\neg r1_xxreal_0 \ np_16 \ np_0 \tag{37}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{38}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{39}$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1) \Rightarrow (v7_ordinal1 \ X0) \tag{40}$$

Theorem 1

$$\begin{aligned} & (m1_subset_1 \ k6_numbers \ np_16) \wedge ((m1_subset_1 \ np_1 \ np_16) \wedge \\ & ((m1_subset_1 \ np_2 \ np_16) \wedge ((m1_subset_1 \ np_3 \ np_16) \wedge ((m1_subset_1 \\ & \quad np_4 \ np_16) \wedge ((m1_subset_1 \ np_5 \ np_16) \wedge ((m1_subset_1 \ np_6 \\ & \quad np_16) \wedge ((m1_subset_1 \ np_7 \ np_16) \wedge ((m1_subset_1 \ np_8 \ np_16) \wedge \\ & \quad ((m1_subset_1 \ np_9 \ np_16) \wedge ((m1_subset_1 \ np_10 \ np_16) \wedge ((\\ & m1_subset_1 \ np_11 \ np_16) \wedge ((m1_subset_1 \ np_12 \ np_16) \wedge ((m1_subset_1 \\ & \quad np_13 \ np_16) \wedge ((m1_subset_1 \ np_14 \ np_16) \wedge (m1_subset_1 \ np_15 \\ & \quad np_16)))))))))) \end{aligned}$$