

t21_cqc_the1 (TMY-
Wmy2YUeXZU5fc8mX21L2RhLr2i1kb2wi)

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Let $k6_numbers : \iota$ be given. Let $k2_cqc_the1 : \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $np_0 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

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

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.

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

Assume the following.

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

Assume the following.

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

Assume the following.

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

Assume the following.

$$\begin{aligned} & (m2_subset_1 \text{ np_0 } k1_numbers \text{ k5_numbers}) \wedge ((m1_subset_1 \text{ np_0 } \\ & \text{ k5_numbers}) \wedge (m1_subset_1 \text{ np_0 } k1_numbers)) \end{aligned} \quad (11)$$

Assume the following.

$$v1_xboole_0 \text{ np_0} \quad (12)$$

Assume the following.

$$r1_xxreal_0 \text{ np_9 } np_9 \quad (13)$$

Assume the following.

$$r1_xxreal_0 \text{ np_8 } np_9 \quad (14)$$

Assume the following.

$$r1_xxreal_0 \text{ np_7 } np_9 \quad (15)$$

Assume the following.

$$r1_xxreal_0 \text{ np_6 } np_9 \quad (16)$$

Assume the following.

$$r1_xxreal_0 \text{ np_5 } np_9 \quad (17)$$

Assume the following.

$$r1_xxreal_0 \text{ np_4 } np_9 \quad (18)$$

Assume the following.

$$r1_xxreal_0 \text{ np_3 } np_9 \quad (19)$$

Assume the following.

$$r1_xxreal_0 \text{ np_2 } np_9 \quad (20)$$

Assume the following.

$$r1_xxreal_0 \text{ } np_1 \text{ } np_9 \quad (21)$$

Assume the following.

$$r1_xxreal_0 \text{ } np_0 \text{ } np_9 \quad (22)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (23)$$

Assume the following.

$$\begin{aligned} k2_cqc_the1 = \text{ReplSep} (\text{toset} (\lambda X0 : \iota.m1_subset.1 \text{ } X0 \text{ } k5_numbers)) \\ (\lambda X0 : \iota.r1_xxreal_0 \text{ } X0 \text{ } np_9) (\lambda X0 : \iota.X0) \end{aligned} \quad (24)$$

Theorem 1

$$\begin{aligned} (k6_numbers \in k2_cqc_the1) \wedge ((np_1 \in k2_cqc_the1) \wedge ((np_2 \in k2_cqc_the1) \wedge \\ ((np_3 \in k2_cqc_the1) \wedge ((np_4 \in k2_cqc_the1) \wedge ((np_5 \in k2_cqc_the1) \wedge \\ ((np_6 \in k2_cqc_the1) \wedge ((np_7 \in k2_cqc_the1) \wedge ((np_8 \in k2_cqc_the1) \wedge \\ (np_9 \in k2_cqc_the1)))))))))) \end{aligned}$$