

t15_radix_1

(TMZ9sdqAwj8CwDQWFwgNW8SJrcfYWnKSU7p)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v3_card.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_radix.1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq.1 : \iota \Rightarrow \iota$ be given. Let $m2_subset.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $k4_finseq.1 : \iota \Rightarrow \iota$ 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.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (\neg v1_xboole.0 X1) \Rightarrow (\\ \forall X2. ((v3_card.1 X2 X0) \wedge (m2_finseq.1 X2 X1)) \Rightarrow (k4_finseq.1 \\ X2 = k2_finseq.1 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. \forall X2. (m2_finseq.1 \\ X2 X1) \Rightarrow ((X0 \in k4_finseq.1 X2) \Rightarrow (k1_funct.1 X2 X0 \in X1))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole.0 X0) \wedge ((\neg v1_xboole.0 X1) \wedge \\ (m1_subset.1 X1 (k1_zfmisc.1 X0)))) \Rightarrow (\forall X2. (m2_subset.1 \\ X2 X0 X1) \Leftrightarrow (m1_subset.1 X2 X1)) \end{aligned} \quad (4)$$

Assume the following.

$$\neg v1_xboole.0 k4_numbers \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow ((\neg v1_xboole.0 (k3_radix.1 X0)) \wedge \\ (m1_subset.1 (k3_radix.1 X0) (k1_zfmisc.1 k4_numbers))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} \forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. (v7_ordinal1 X1) \Rightarrow (\forall X2. \\ (v7_ordinal1 X2) \Rightarrow (\forall X3. ((v3_card.1 X3 X1) \wedge (m2_finseq.1 \\ X3 (k3_radix.1 X2)) \Rightarrow ((X0 \in k2_finseq.1 X1) \Rightarrow (m2_subset.1 (k1_funct.1 \\ X3 X0) k4_numbers (k3_radix.1 X2))))))) \end{aligned}$$