

t108_seq_4

(TMdXqs2XCXupyj36WPFLArATGCzkJZzSddN)

October 27, 2020

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 $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k14_seq_4 : \iota \Rightarrow \iota$ be given. Let $v1_seq_4 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k22_seq_4 : \iota \Rightarrow \iota$ be given. Let $k15_seq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k3_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (\exists X3. (X2 \in X3) \wedge (X3 \in X0))) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k14_seq_4 X0))) \Rightarrow ((v1_seq_4 X1 X0) \Leftrightarrow \\ & (\forall X2. (m2_finseq_2 X2 k2_numbers (k14_seq_4 X0)) \Rightarrow (\neg(X2 \in \\ & X1) \wedge (\forall X3. (m1_subset_1 X3 k1_numbers) \Rightarrow (\neg(\neg r1_xxreal_0 \\ & X3 k6_numbers) \wedge (\forall X4. (m2_finseq_2 X4 k2_numbers (k14_seq_4 \\ & X0)) \Rightarrow ((\neg r1_xxreal_0 X3 (k22_seq_4 X4)) \Rightarrow (k15_seq_4 X0 X2 X4 \in X1)))))))))) \quad (3) \end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0. (m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (k1_zfmisc_1 (k1_zfmisc_1 (k14_seq_4 X0)))) \Rightarrow \\ & ((\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (k14_seq_4 X0))) \Rightarrow (\\ & (X2 \in X1) \Rightarrow (v1_seq_4 X2 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k14_seq_4 X0))) \Rightarrow ((X2 = k3_tarski X1) \Rightarrow (v1_seq_4 X2 X0)))) \end{aligned}$$