

t120_seq_4

(TMHVPvEpaNzRqQwiX4myPucYYt4BBDnVXe9)

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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 $m2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $k14_seq_4 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k25_seq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k24_seq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_numbers) \Rightarrow (\forall X2.(m2_finseq_2 X2 k2_numbers \\ & (k14_seq_4 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (k14_seq_4 \\ & X0))) \Rightarrow ((X2 \in k25_seq_4 X0 X3 X1) \Leftrightarrow (\neg r1_xxreal_0 X1 (k24_seq_4 X0 \\ & X2 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m2_finseq_2 X1 k2_numbers (k14_seq_4 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k1_zfmisc_1 (k14_seq_4 X0))) \Rightarrow ((X1 \in X2) \Rightarrow (k24_seq_4 X0 X1 X2 = \\ & k6_numbers)))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_subset_1 X0 k1_numbers k5_numbers) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 k1_numbers) \Rightarrow (\forall X2.(m2_finseq_2 X2 k2_numbers \\ & (k14_seq_4 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (k14_seq_4 \\ & X0))) \Rightarrow ((X2 \in X3) \Rightarrow ((r1_xxreal_0 X1 k6_numbers) \vee (X2 \in k25_seq_4 \\ & X0 X3 X1)))))) \end{aligned}$$