

t6_random_1 (TMYNMKuGtd- sNQUV3ZYMizVSLR7tarsD9sXx)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $r2_mesfunc6 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_random_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_prob_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_prob_2 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. ((\neg v1_xboole_0 X1) \wedge \\
 & ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
 & (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2. ((v1_funct_1 X2) \wedge (m1_subset_1 \\
 & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k1_numbers)))) \Rightarrow ((r2_mesfunc6 \\
 & X0 X1 X2) \Rightarrow (m2_subset_1 (k1_relset_1 X0 X2) (k1_zfmisc_1 X0 X1))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge (v1_finset_1 X0)) \Rightarrow (\forall X1. \\
& ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\
& k1_numbers)))) \Rightarrow (\exists X2.((v1_prob_2 X2) \wedge (m2_finseq_1 X2 \\
& (k1_random_1 X0))) \wedge (\exists X3.(m2_finseq_1 X3 (k1_relset_1 \\
& X0 X1)) \wedge ((k1_relset_1 X0 X1 = k3_tarski (k2_relset_1 (k1_random_1 \\
& X0) X2)) \wedge ((k4_finseq_1 X2 = k4_finseq_1 X3) \wedge ((v2_funct_1 X3) \wedge \\
& ((k2_relset_1 (k1_relset_1 X0 X1) X3 = k1_relset_1 X0 X1) \wedge ((k3_finseq_1 \\
& X3 = k5_card_1 (k1_relset_1 X0 X1)) \wedge (\forall X4.(v7_ordinal1 \\
& X4) \Rightarrow ((X4 \in k4_finseq_1 X2) \Rightarrow (k1_funct_1 X2 X4 = k1_tarski (k1_funct_1 \\
& X3 X4)))) \wedge (\forall X4.(v7_ordinal1 X4) \Rightarrow (\forall X5.(m1_subset_1 \\
& X5 X0) \Rightarrow (\forall X6.(m1_subset_1 X6 X0) \Rightarrow (((X4 \in k4_finseq_1 X2) \wedge \\
& ((X5 \in k1_funct_1 X2 X4) \wedge (X6 \in k1_funct_1 X2 X4)) \Rightarrow (k1_seq_1 X1 X5 = \\
& k1_seq_1 X1 X6)))))))))))))
\end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 X0) \Rightarrow ((\neg v1_xboole_0 (k1_random_1 X0)) \wedge \\
& ((v1_prob_1 (k1_random_1 X0) X0) \wedge ((v4_prob_1 (k1_random_1 X0) \\
& X0) \wedge (m1_subset_1 (k1_random_1 X0) (k1_zfmisc_1 (k1_zfmisc_1 \\
& X0))))))
\end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\
& ((v1_prob_1 X1 X0) \wedge ((v4_prob_1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\
& (k1_zfmisc_1 X0)))))) \Rightarrow (\forall X2.((v1_funct_1 X2) \wedge (m1_subset_1 \\
& X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k1_numbers)))) \Rightarrow ((r2_mesfunc6 \\
& X0 X1 X2) \Leftrightarrow (\exists X3.((v1_prob_2 X3) \wedge (m2_finseq_1 X3 X1)) \wedge ((\\
& k1_relset_1 X0 X2 = k3_tarski (k2_relset_1 X1 X3)) \wedge (\forall X4. \\
& (v7_ordinal1 X4) \Rightarrow (\forall X5.(m1_subset_1 X5 X0) \Rightarrow (\forall X6. \\
& (m1_subset_1 X6 X0) \Rightarrow (((X4 \in k4_finseq_1 X3) \wedge ((X5 \in k1_funct_1 X3 \\
& X4) \wedge (X6 \in k1_funct_1 X3 X4)) \Rightarrow (k1_seq_1 X2 X5 = k1_seq_1 X2 X6))))))))))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge (v1_finset_1 X0)) \Rightarrow (\forall X1. \\
& ((v1_funct_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\
& k1_numbers)))) \Rightarrow ((r2_mesfunc6 X0 (k1_random_1 X0) X1) \wedge (m2_subset_1 \\
& (k1_relset_1 X0 X1) (k1_zfmisc_1 X0) (k1_random_1 X0)))
\end{aligned}$$