

t50_prob_3 (TMJb-
JcRAd81hN7dbCfwsuiMh1mRGX6xY56o)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k6_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 \\ X1))) \Rightarrow ((k3_finseq_1 X0 = k3_finseq_1 X1) \Leftrightarrow (k1_relset_1 k5_numbers \\ X0 = k1_relset_1 k5_numbers X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{2}$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m2_finseq_1 X1 X0) \Rightarrow ((v1_funct_1 X1) \wedge (\\ (v1_finseq_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers \\ X0)))))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (m1_finseq_1 X1 X0) \Rightarrow ((v1_relat_1 X1) \wedge (\\ (v1_funct_1 X1) \wedge (v1_finseq_1 X1))) \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. (m1_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (m2_finseq_1 \\ (k6_prob_3 X0 X1) (k9_setfam_1 X0)) \tag{6}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ & (m2_finseq_1 X2 (k9_setfam_1 X0)) \Rightarrow ((X2 = k6_prob_3 X0 X1) \Leftrightarrow ((k3_finseq_1 \\ & X2 = k3_finseq_1 X1) \wedge (\forall X3. (v7_ordinal1 X3) \Rightarrow ((X3 \in k1_relset_1 \\ & k5_numbers X2) \Rightarrow (k4_prob_3 X0 X2 X3 = k3_subset_1 X0 (k4_prob_3 X0 \\ & X1 X3))))))) \end{aligned} \tag{7}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \end{aligned} \tag{8}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (k1_relset_1 \\ & k5_numbers (k6_prob_3 X0 X1) = k1_relset_1 k5_numbers X1) \end{aligned}$$