

t26_prob_3

(TMMeyToVYKcBAW3f8HXjykt8DSrxLyowbfj)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_prob_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.\forall X3. \\ & ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 k5_numbers (k9_setfam_1 X1)) \wedge \\ & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (k9_setfam_1 \\ & X1)))))) \Rightarrow ((X2 \in k1_funct_1 (k2_prob_3 X1 X3) X0) \Leftrightarrow (\exists X4.(\\ & v7_ordinal1 X4) \wedge ((r1_xxreal_0 X4 X0) \wedge (X2 \in k1_funct_1 X3 X4)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.\forall X2.\forall X3. \\ & ((\neg v1_xboole_0 X3) \wedge ((v1_prob_1 X3 X1) \wedge ((v4_prob_1 X3 X1) \wedge (m1_subset_1 \\ & X3 (k1_zfmisc_1 (k1_zfmisc_1 X1)))))) \Rightarrow (\forall X4.((v5_relat_1 \\ & X4 X3) \wedge ((v1_funct_1 X4) \wedge ((v1_funct_2 X4 k5_numbers (k9_setfam_1 \\ & X1)) \wedge (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (k9_setfam_1 \\ & X1)))))) \Rightarrow ((X2 \in k1_funct_1 (k2_prob_3 X1 X4) X0) \Leftrightarrow (\exists X5. \\ & (v7_ordinal1 X5) \wedge ((r1_xxreal_0 X5 X0) \wedge (X2 \in k1_funct_1 X4 X5)))))) \end{aligned}$$