

t18_measure1

(TMVtCTVrZBCrftvC1iZRf2Gm4fdV2idKR6j)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v4_card_3 : \iota \Rightarrow o$ 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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_prob_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_subset_1 : \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (\forall X2. \\
& (m1_subset_1 X2 (k1_zfmisc_1 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
& (k1_zfmisc_1 X0)) \Rightarrow (\exists X4. ((v1_funct_1 X4) \wedge ((v1_funct_2 \\
& X4 k5_numbers (k9_setfam_1 X0)) \wedge (m1_subset_1 X4 (k1_zfmisc_1 \\
& (k2_zfmisc_1 k5_numbers (k9_setfam_1 X0)))))) \wedge ((k2_relset_1 \\
& (k9_setfam_1 X0) X4 = k1_enumset1 X1 X2 X3) \wedge ((k1_prob_2 X0 (k9_setfam_1 \\
& X0) X4 k6_numbers = X1) \wedge ((k1_prob_2 X0 (k9_setfam_1 X0) X4 np_1 = \\
& X2) \wedge (\forall X5. (m2_subset_1 X5 k1_numbers k5_numbers) \Rightarrow ((\neg r1_xxreal_0 \\
& X5 np_1) \Rightarrow (k1_prob_2 X0 (k9_setfam_1 X0) X4 X5 = X3))))))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. k9_setfam_1 X0 = k1_zfmisc_1 X0 \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg v1_xboole_0 (k1_enumset1 X0 X1 X2) \tag{3}$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_zfmisc_1 X0) \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v5_relat_1 X1 X0))\Rightarrow(m1_subset_1 (k2_relset_1 X0 X1) (k1_zfmisc_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_subset_1 X0) (k1_zfmisc_1 X0) \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ X0))\Rightarrow((v4_card_3 X1)\Leftrightarrow(\neg(\neg v1_xboole_0 X1)\wedge(\forall X2.((v1_funct_1 \\ X2)\wedge((v1_funct_2 X2 k5_numbers X0)\wedge(m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 k5_numbers X0))))))\Rightarrow(X1\neq k2_relset_1 X0 X2)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.k1_subset_1 X0 = k1_xboole_0 \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow((v4_relat_1 X2 X0)\wedge(v5_relat_1 X2 X1)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (10)$$

Theorem 1

$$\begin{aligned} \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(\forall X2. \\ (m1_subset_1 X2 (k1_zfmisc_1 X0))\Rightarrow((\neg v1_xboole_0 (k1_enumset1 \\ X1 X2 k1_xboole_0))\wedge((v4_card_3 (k1_enumset1 X1 X2 k1_xboole_0))\wedge \\ (m1_subset_1 (k1_enumset1 X1 X2 k1_xboole_0) (k1_zfmisc_1 (k1_zfmisc_1 \\ X0)))))) \end{aligned}$$