

t30_mmlquery
(TMKqyG2ntub75zTAFgnikbnGQhHGFeyc7Bq)

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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 $k2_zfmisc.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_mmlquery : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_relset.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_tarSKI : \iota \Rightarrow \iota$ be given. Let $k9_relat.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_relat.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m1_subset.1 X0 (k1_zfmisc.1 X1)) \Leftrightarrow (r1_tarSKI X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarSKI (k1_tarSKI X0) X1) \Leftrightarrow (X0 \in X1) \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (m1_subset.1 X1 (k1_zfmisc.1 (k2_zfmisc.1 \\ X0 X0))) \Rightarrow (\forall X2. (m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 \\ X0 X0))) \Rightarrow ((\forall X3. (X3 \in X0) \Rightarrow (k9_relat.1 X1 X3 = k9_relat.1 X2 \\ X3)) \Rightarrow (r2_relset.1 X0 X0 X1 X2))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. ((m1_subset.1 X2 \\ (k1_zfmisc.1 (k2_zfmisc.1 X0 X1))) \wedge (m1_subset.1 X3 (k1_zfmisc.1 \\ (k2_zfmisc.1 X0 X1)))) \Rightarrow ((r2_relset.1 X0 X1 X2 X3) \Rightarrow (r2_relset.1 \\ X0 X1 X3 X2)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((m1_subset.1 X1 (k1_zfmisc.1 \\ (k2_zfmisc.1 X0 X0))) \wedge (m1_subset.1 X2 (k1_zfmisc.1 X0))) \Rightarrow (k2_mmlquery \\ X0 X1 X2 = k7_relat.1 X1 X2) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat.1 X0) \Rightarrow (\forall X1. (k9_relat.1 X0 X1 = k7_relat.1 X0 (k1_tarSKI X1))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (7)$$

Theorem 1

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X0)))\Rightarrow((\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 X0))\Rightarrow(k2_mmlquery X0 X1 X3 = k2_mmlquery X0 X2 X3))\Rightarrow(r2_relset_1 X0 X0 X1 X2)))$$