

t55_relset_2

(TMdQjfMc1Q3Rppt8ZhWNS5TmaARB9P9JAVK)

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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 $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k7_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X1 X0))) \Rightarrow ((k9_xtuple_0 X2 = k7_relset_1 X0 X1 (k3_relset_1 \\ & X1 X0 X2) X0) \wedge (k10_xtuple_0 X2 = k7_relset_1 X1 X0 X2 X1)) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X1 X0))) \Rightarrow ((k9_xtuple_0 X2 = k7_relset_1 X0 X1 (k3_relset_1 \\ & X1 X0 X2) X0) \wedge (k7_relset_1 X0 X1 (k3_relset_1 X1 X0 X2) (k7_relset_1 \\ & X1 X0 X2 X1) = k7_relset_1 X0 X1 (k3_relset_1 X1 X0 X2) (k10_xtuple_0 \\ & X2))) \end{aligned}$$