

t9_scmfsa_1 (TMAYAYnBsPHiYteX- pZT8X3EWkstgfmRyi4DX)

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Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_scmfsa_1 : \iota$ be given. Let $k5_scmfsa_1 : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v5_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k7_afinsq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_afinsq_1 : \iota \Rightarrow \iota$ be given. Let $np_3 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_scmfsa_1 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((v1_relat_1 X3) \wedge \\ & ((v5_ordinal1 X3) \wedge ((v1_funct_1 X3) \wedge (v1_finset_1 X3)))) \Rightarrow ((X3 = \\ & k7_afinsq_1 X0 X1 X2) \Leftrightarrow ((k1_afinsq_1 X3 = np_3) \wedge ((k1_funct_1 X3 \\ & k6_numbers = X0) \wedge ((k1_funct_1 X3 np_1 = X1) \wedge (k1_funct_1 X3 np_2 = \\ & X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v1_funct_1 X1)) \Rightarrow (\forall X2. \\ & ((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((X0 \in k9_xtuple_0 X1) \Rightarrow (k1_funct_1 \\ & (k3_relat_1 X1 X2) X0 = k1_funct_1 X2 (k1_funct_1 X1 X0)))) \end{aligned} \tag{2}$$

Assume the following.

$$k1_funct_1 k4_scmfsa_1 k5_numbers = k6_numbers \tag{3}$$

Assume the following.

$$k5_numbers \in k9_xtuple_0 k4_scmfsa_1 \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. v1_relat_1 (k2_zfmisc_1 X0 X1) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(v5_ordinal1 (k7_afinsq_1 X0 X1 X2))\wedge(v1_finset_1 (k7_afinsq_1 X0 X1 X2)) \quad (6)$$

Assume the following.

$$(v1_relat_1 k5_scmf_sa_1)\wedge((v4_relat_1 k5_scmf_sa_1 np_3)\wedge(v1_funct_1 k5_scmf_sa_1)\wedge(v1_partfun1 k5_scmf_sa_1 np_3)) \quad (7)$$

Assume the following.

$$(v1_funct_1 k4_scmf_sa_1)\wedge((v1_funct_2 k4_scmf_sa_1 k1_scmf_sa_1 np_3)\wedge(m1_subset_1 k4_scmf_sa_1 (k1_zfmisc_1 (k2_zfmisc_1 k1_scmf_sa_1 np_3)))) \quad (8)$$

Assume the following.

$$k5_scmf_sa_1 = k7_afinsq_1 k5_numbers k4_numbers (k3_finseq_2 k4_numbers) \quad (9)$$

Assume the following.

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

Theorem 1 $k1_funct_1 (k3_relat_1 k4_scmf_sa_1 k5_scmf_sa_1) k5_numbers = k5_numbers.$