

l16_scmfsa_1
(TMT8gfG3PFLLcQs51hP8kh3RuauCLQreJdG)

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Let $k5_numbers : \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k4_scmfsa_1 : \iota$ be given. Let $k1_scmfsa_1 : \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_ami_2 : \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_ami_2 : \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $np_3 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$k5_numbers \in k1_scmfsa_1 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (k1_relset_1 X0 X1 = k9_xtuple_0 X1) \tag{2}$$

Assume the following.

$$k5_numbers \in k1_ami_2 \tag{3}$$

Assume the following.

$$r1_tarski (k9_xtuple_0 k3_ami_2) (k9_xtuple_0 k4_scmfsa_1) \tag{4}$$

Assume the following.

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

Assume the following.

$$(v1_funct_1 k4_scmfsa_1) \wedge ((v1_funct_2 k4_scmfsa_1 k1_scmfsa_1 np_3) \wedge (m1_subset_1 k4_scmfsa_1 (k1_zfmisc_1 (k2_zfmisc_1 k1_scmfsa_1 np_3)))) \tag{6}$$

Assume the following.

$$(v1_funct_1\ k3_ami_2) \wedge ((v1_funct_2\ k3_ami_2\ k1_ami_2\ np_2) \wedge (m1_subset_1\ k3_ami_2\ (k1_zfmisc_1\ (k2_zfmisc_1\ k1_ami_2\ np_2)))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarski\ X0\ X1) \Leftrightarrow (\forall X2.(X2 \in X0) \Rightarrow (X2 \in X1)) \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1 \\ & (k2_zfmisc_1\ X0\ X1))) \Rightarrow (((X1 \neq k1_xboole_0) \Rightarrow ((v1_funct_2\ X2\ X0 \\ & X1) \Leftrightarrow (X0 = k1_relset_1\ X0\ X2))) \wedge ((X1 = k1_xboole_0) \Rightarrow ((v1_funct_2 \\ & X2\ X0\ X1) \Leftrightarrow (X2 = k1_xboole_0)))) \quad (9) \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ X1))) \Rightarrow ((v4_relat_1\ X2\ X0) \wedge (v5_relat_1\ X2\ X1)) \quad (10)$$

Assume the following.

$$\forall X0.(v1_relat_1\ X0) \Rightarrow (\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0)) \Rightarrow (v1_relat_1\ X1)) \quad (11)$$

Theorem 1 $k5_numbers \in k9_xtuple_0\ k4_scmf_sa_1$.