

t8_ami_2

(TMS5xJug4nzyokVJK1ddcd3HLCNTMahXFM1)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_ami_2 : \iota$ be given. Let $k2_ami_2 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_ami_2 : \iota$ be given. Let $k4_ami_2 : \iota$ be given. Let $k4_numbers : \iota$ be given. 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 $k2_scm_inst : \iota$ be given. Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_ami_2) \Rightarrow ((X0 \in k2_ami_2) \Rightarrow (k1_funct_1 (k3_relat_1 k3_ami_2 k4_ami_2) X0 = k4_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2.(m2_subset_1 X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \quad (4)$$

Assume the following.

$$k2_ami_2 = k2_scm_inst \quad (5)$$

Assume the following.

$$\neg v1_xboole_0 k2_scm_inst \quad (6)$$

Assume the following.

$$\neg v1_xboole_0 k1_ami_2 \quad (7)$$

Assume the following.

$$m1_subset_1 k2_ami_2 (k1_zfmisc_1 k1_ami_2) \quad (8)$$

Theorem 1

$$\forall X0.(m2_subset_1\ X0\ k1_ami_2\ k2_ami_2) \Rightarrow (k1_funct_1\ (k3_relat_1\ k3_ami_2\ k4_ami_2)\ X0 = k4_numbers)$$