

t1_scmfsa10
(TMJfsstZ3Q3me3BH7UKZJDcZyuo3eLz3bKG)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmfsa_2 : \iota$ be given. Let $k8_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_ami_2 : \iota \Rightarrow o$ be given. Let $m1_scmfsa_2 : \iota \Rightarrow o$ be given. Let $k4_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_scmfsa_2 : \iota$ be given. Let $k3_scmfsa_2 : \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_scm_inst : \iota$ be given. Let $k2_ami_2 : \iota$ be given. Let $k3_scmfsa_1 : \iota$ be given. Assume the following.

$$k8_struct_0 \ k1_scmfsa_2 = k4_subset_1 \ (u1_struct_0 \ k1_scmfsa_2) \ k2_scmfsa_2 \ k3_scmfsa_2 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((m1_subset_1 \ X1 \ (k1_zfmisc_1 \ X0)) \wedge (m1_subset_1 \ X2 \ (k1_zfmisc_1 \ X0))) \Rightarrow (k4_subset_1 \ X0 \ X1 \ X2 = k2_xboole_0 \ X1 \ X2) \quad (2)$$

Assume the following.

$$k2_scmfsa_2 = k2_scm_inst \quad (3)$$

Assume the following.

$$k2_ami_2 = k2_scm_inst \quad (4)$$

Assume the following.

$$m1_subset_1 \ k3_scmfsa_2 \ (k1_zfmisc_1 \ (u1_struct_0 \ k1_scmfsa_2)) \quad (5)$$

Assume the following.

$$m1_subset_1 \ k2_scmfsa_2 \ (k1_zfmisc_1 \ (u1_struct_0 \ k1_scmfsa_2)) \quad (6)$$

Assume the following.

$$\forall X0. (m1_subset_1 \ X0 \ (u1_struct_0 \ k1_scmfsa_2)) \Rightarrow ((m1_scmfsa_2 \ X0) \Leftrightarrow (X0 \in k3_scmfsa_1)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(X2 = k2_xboole_0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \quad (8)$$

Assume the following.

$$k3_scmfsa_2 = k3_scmfsa_1 \quad (9)$$

Assume the following.

$$\forall X0.(v1_ami_2 X0) \Leftrightarrow (X0 \in k2_ami_2) \quad (10)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2)) \Rightarrow (\neg(X0 \in k8_struct_0 k1_scmfsa_2) \wedge ((\neg(v1_ami_2 X0) \wedge (m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2))) \wedge (\neg m1_scmfsa_2 X0)))$$