

t16_scmfsa_m
(TMTA6LgVv7GKZY6d3icBELkifw74j82uxWv)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k3_scmfsa_2 : \iota$ be given. Let $k3_scmfsa_m : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $k6_seq_4 : \iota \Rightarrow \iota$ be given. Let $k2_xxreal_2 : \iota \Rightarrow \iota$ be given. Let $v1_xxreal_2 : \iota \Rightarrow o$ be given. Let $v1_xxreal_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_scmfsa_2 : \iota \Rightarrow o$ be given. Let $v2_membered : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k5_scmfsa_2 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v4_membered : \iota \Rightarrow o$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v1_xboole_0 X0) \wedge (v6_membered X0)) \Rightarrow (k6_seq_4 X0 = k2_xxreal_2 X0) \quad (1)$$

Assume the following.

$$\forall X0.((v6_membered X0) \wedge (v1_xxreal_2 X0)) \Rightarrow ((v1_xxreal_0 (k2_xxreal_2 X0)) \wedge (v7_ordinal1 (k2_xxreal_2 X0))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_finset_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k3_scmfsa_2))) \Rightarrow (m1_scmfsa_2 (k3_scmfsa_m X0)) \quad (3)$$

Assume the following.

$$\forall X0.((v2_membered X0) \wedge (v1_xxreal_2 X0)) \Rightarrow (\forall X1. (v1_xxreal_0 X1) \Rightarrow ((X1 = k2_xxreal_2 X0) \Leftrightarrow ((X1 \in X0) \wedge (\forall X2. (v1_xxreal_0 X2) \Rightarrow ((X2 \in X0) \Rightarrow (r1_xxreal_0 X1 X2)))))) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_finset_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k3_scmf_sa_2))) \Rightarrow \\ (\forall X1.(m1_scmf_sa_2 X1) \Rightarrow ((X1 = k3_scmf_sa_m X0) \Leftrightarrow (\exists X2. \\ ((\neg v1_xboole_0 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 k5_numbers)))) \wedge \\ ((X1 = k5_scmf_sa_2 (k6_seq_4 X2)) \wedge (X2 = ReplSep (toset (\lambda X3 : \\ \iota.m2_subset_1 X3 k1_numbers k5_numbers)) (\lambda X3 : \iota.\neg k5_scmf_sa_2 \\ X3 \in X0) (\lambda X3 : \iota.X3)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (v2_membered X0) \quad (6)$$

Assume the following.

$$\forall X0.((v6_membered X0) \wedge (\neg v1_xboole_0 X0)) \Rightarrow ((v6_membered X0) \wedge ((\neg v1_xboole_0 X0) \wedge (v1_xreal_2 X0))) \quad (7)$$

Assume the following.

$$\forall X0.(v4_membered X0) \Rightarrow (v3_membered X0) \quad (8)$$

Assume the following.

$$\forall X0.(v5_membered X0) \Rightarrow (v4_membered X0) \quad (9)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (v5_membered X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 k5_numbers)) \Rightarrow (v6_membered X0) \quad (11)$$

Theorem 1

$$\forall X0.((v1_finset_1 X0) \wedge (m1_subset_1 X0 (k1_zfmisc_1 k3_scmf_sa_2))) \Rightarrow (\neg k3_scmf_sa_m X0 \in X0)$$