

t60_scmfsa_2 (TM- GrabFo48wqhonKrWuMMPC1Ft1M1o6vRDh)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m1_scmfsa_2 : \iota \Rightarrow o$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k3_scmfsa_1 : \iota$ be given. Let $k1_scmfsa_i : \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_scmfsa_2 : \iota$ be given. Let $k4_numbers : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. k6_subset_1 X0 X1 = k4_xboole_0 X0 X1 \quad (1)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (2)$$

Assume the following.

$$k3_scmfsa_1 = k1_scmfsa_i \quad (3)$$

Assume the following.

$$\forall X0. (m1_scmfsa_2 X0) \Rightarrow (m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2)) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k4_xboole_0 X0 X1) &\Leftrightarrow (\forall X3. \\ (X3 \in X2) &\Leftrightarrow ((X3 \in X0) \wedge (\neg X3 \in X1))) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 (u1_struct_0 k1_scmfsa_2)) \Rightarrow ((m1_scmfsa_2 X0) \Leftrightarrow (X0 \in k3_scmfsa_1)) \quad (6)$$

Assume the following.

$$k1_scmfsa_i = k6_subset_1 k4_numbers k5_numbers \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Leftrightarrow(X0 \in k4_ordinal1) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (9)$$

Theorem 1

$$\forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.(m1_scmfsa_2\ X1)\Rightarrow(X0\neq X1))$$