

t8_scmfsa10
(TMZA7HqWqH8MvPjksLqcGMgo6kvNUmDGzV4)

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Let $v1_ami_2 : \iota \Rightarrow o$ be given. 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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k13_scmfsa_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_8 : \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $u1_compos_1 : \iota \Rightarrow \iota$ be given. Let $k1_ami_3 : \iota$ be given. Let $k9_ami_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge ((\neg v1_xboole_0 X1) \wedge \\ (m1_subset_1 X1 (k1_zfmisc_1 X0)))) \Rightarrow (\forall X2. (m2_subset_1 \\ X2 X0 X1) \Leftrightarrow (m1_subset_1 X2 X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. k9_finseq_1 X0 = k5_finseq_1 X0 \quad (2)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow \\ (k12_finseq_1 X0 X1 = k5_finseq_1 X1) \end{aligned} \quad (4)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1) \wedge (v3_ordinal1 k4_ordinal1) \quad (5)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (6)$$

Assume the following.

$$m1_subset_1\ k5_numbers\ (k1_zfmisc_1\ k1_numbers) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1\ X0\ k5_numbers)\wedge((v1_ami_2 \\ X1)\wedge(m1_subset_1\ X1\ (u1_struct_0\ k1_scmfsa_2))))\Rightarrow(m1_subset_1 \\ (k13_scmfsa_2\ X0\ X1)\ (u1_compos_1\ k1_scmfsa_2)) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.((v1_ami_2 \\ X1)\wedge(m1_subset_1\ X1\ (u1_struct_0\ k1_scmfsa_2)))\Rightarrow(\forall X2. \\ (m1_subset_1\ X2\ (u1_compos_1\ k1_scmfsa_2))\Rightarrow((X2 = k13_scmfsa_2 \\ X0\ X1)\Leftrightarrow(\exists X3.((v1_ami_2\ X3)\wedge(m1_subset_1\ X3\ (u1_struct_0 \\ k1_ami_3))))\wedge((X1 = X3)\wedge(X2 = k9_ami_3\ X0\ X3)))))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow(\forall X1.((v1_ami_2\ X1)\wedge(m1_subset_1 \\ X1\ (u1_struct_0\ k1_ami_3)))\Rightarrow(k9_ami_3\ X0\ X1 = k3_xtuple_0\ np_8 \\ (k9_finseq_1\ X0)\ (k9_finseq_1\ X1))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k4_ordinal1)\Rightarrow(v7_ordinal1\ X0) \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_ami_2\ X0)\wedge(m1_subset_1\ X0\ (u1_struct_0\ k1_scmfsa_2)))\Rightarrow \\ (\forall X1.(m2_subset_1\ X1\ k1_numbers\ k5_numbers)\Rightarrow(k13_scmfsa_2 \\ X1\ X0 = k3_xtuple_0\ np_8\ (k12_finseq_1\ k5_numbers\ X1)\ (k9_finseq_1 \\ X0))) \end{aligned}$$