

t3_abc Miz_a (TMNKC N- Jvo9Vn99oKLM TURfvzH2QpncKk6kv)

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Let $v1_instalg1 : \iota \Rightarrow o$ be given. Let $v1_abc Miz_1 : \iota \Rightarrow o$ be given. Let $v3_abc Miz_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $u3_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v5_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abc Miz_1 : \iota$ be given. Let $k35_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_trees_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k34_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k36_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k30_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k32_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k12_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k31_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k33_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k16_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k15_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v3_trees_3 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k3_card_3 \\
 & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))) \Rightarrow (\neg(\forall X2. \\
 & (m1_subset_1 X2 k2_abc Miz_1) \Rightarrow (X1 \neq k35_abc Miz_1 X2 X0))) \wedge ((\forall X2. \\
 & ((v2_abc Miz_1 X2 X0) \wedge (m1_subset_1 X2 (u4_struct_0 X0))) \Rightarrow (\forall X3. \\
 & (m1_trees_4 X3 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))) (k34_abc Miz_1 X0) \Rightarrow (\neg(k3_finseq_1 X3 = k3_finseq_1 (k1_msualg_1 \\
 & X0 X2))) \wedge (X1 = k36_abc Miz_1 X0 X2 X3)))) \wedge ((\forall X2.(m1_abc Miz_1 \\
 & X2 X0 (k13_abc Miz_1 X0) \Rightarrow (X1 \neq k30_abc Miz_1 X0 (k32_abc Miz_1 X0 \\
 & X2)) \wedge (\forall X2.(m1_abc Miz_1 X2 X0 (k13_abc Miz_1 X0) \Rightarrow (\forall X3. \\
 & (m1_abc Miz_1 X3 X0 (k12_abc Miz_1 X0) \Rightarrow (X1 \neq k31_abc Miz_1 X0 (k33_abc Miz_1 \\
 & X0 X2 X3))))))))))
 \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \Rightarrow (\forall X2. (m1_trees_4 X2 X0 X1) \Leftrightarrow (m1_finseq_1 X2 X1)) \tag{2}$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(k33_abcmiz_1\ X0 = k16_abcmiz_1\ X0) \quad (3)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(k32_abcmiz_1\ X0 = k15_abcmiz_1\ X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1\ X0\ k2_abcmiz_1)\wedge((v1_instalg1\ X1)\wedge((v1_abcmiz_1\ X1)\wedge((v3_abcmiz_1\ X1)\wedge(l1_msualg_1\ X1)))))\Rightarrow(\neg v5_abcmiz_1\ (k35_abcmiz_1\ X0\ X1)\ X1\ (k28_abcmiz_1\ X1)) \quad (5)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\Rightarrow((\neg v1_xboole_0\ (k34_abcmiz_1\ X0))\wedge(v3_trees_3\ (k34_abcmiz_1\ X0))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge((m1_abcmiz_1\ X1\ X0\ (k13_abcmiz_1\ X0))\wedge(m1_abcmiz_1\ X2\ X0\ (k12_abcmiz_1\ X0))))\Rightarrow(v5_abcmiz_1\ (k31_abcmiz_1\ X0\ (k16_abcmiz_1\ X0)\ X1\ X2)\ X0\ (k28_abcmiz_1\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(m1_abcmiz_1\ X1\ X0\ (k13_abcmiz_1\ X0)))\Rightarrow(v5_abcmiz_1\ (k30_abcmiz_1\ X0\ (k15_abcmiz_1\ X0)\ X1)\ X0\ (k28_abcmiz_1\ X0)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(((v2_abcmiz_1\ X1\ X0)\wedge(m1_subset_1\ X1\ (u4_struct_0\ X0))\wedge(m1_finseq_1\ X2\ (k34_abcmiz_1\ X0))))\Rightarrow((v5_abcmiz_1\ (k36_abcmiz_1\ X0\ X1\ X2)\ X0\ (k28_abcmiz_1\ X0))\wedge(m1_subset_1\ (k36_abcmiz_1\ X0\ X1\ X2)\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \quad (9)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(m1_subset_1\ (k34_abcmiz_1\ X0)\ (k1_zfmisc_1\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \quad (10)$$

Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow (v1_xboole_0 X1)) \quad (11)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \Rightarrow ((v5_abcmiz_1 \\ & X1 X0 (k28_abcmiz_1 X0)) \Leftrightarrow (\forall X2.(m1_subset_1 X2 k2_abcmiz_1) \Rightarrow \\ & (X1 \neq k35_abcmiz_1 X2 X0))) \end{aligned}$$