

t73_abcmiz_1

(TMU2UPytbsjiqwEBmJ4HeXpwgRNs35nMGxL)

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Let $v1_instal1 : \iota \Rightarrow o$ be given. Let $v1_abcmiz_1 : \iota \Rightarrow o$ be given. Let $v3_abcmiz_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $m3_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. 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 $k38_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $v9_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k12_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k1_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k28_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_trees_3 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_instal1 X1) \wedge ((v1_abcmiz_1 X1) \wedge \\ & (v3_abcmiz_1 X1) \wedge (l1_msualg_1 X1))) \Rightarrow ((m3_abcmiz_1 X0 X1) \Leftrightarrow (\\ & \exists X2. ((v1_finset_1 X2) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k38_abcmiz_1 \\ & X1)))) \wedge (\exists X3. ((v9_abcmiz_1 X3 X1) \wedge (m1_abcmiz_1 X3 X1 (k12_abcmiz_1 \\ & X1)))) \wedge (X0 = k1_domain_1 (k1_zfmisc_1 (k38_abcmiz_1 X1)) (k3_card_3 \\ & (u3_msualg_1 X1 (k1_msafree3 X1 (k28_abcmiz_1 X1)))))) X2 X3))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. (k4_tarski X0 X1 = k4_tarski X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3)) \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X0) \wedge \\ & ((\neg v1_xboole_0 X1) \wedge ((m1_subset_1 X2 X0) \wedge (m1_subset_1 X3 X1)))) \Rightarrow \\ & (k1_domain_1 X0 X1 X2 X3 = k4_tarski X2 X3) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_zfmisc_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\Rightarrow((\neg v1_xboole_0\ (k38_abcmiz_1\ X0))\wedge(v3_trees_3\ (k38_abcmiz_1\ X0))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(m1_subset_1\ X1\ (u1_struct_0\ X0)))\Rightarrow(\forall X2.(m1_abcmiz_1\ X2\ X0\ X1)\Rightarrow(m1_subset_1\ X2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(m1_subset_1\ (k38_abcmiz_1\ X0)\ (k1_zfmisc_1\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \quad (7)$$

Assume the following.

$$\forall X0.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(m1_subset_1\ (k12_abcmiz_1\ X0)\ (u1_struct_0\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.(v1_xboole_0\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k1_zfmisc_1\ X0))\Rightarrow(v1_xboole_0\ X1)) \quad (9)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.(((v1_instalg1\ X2)\wedge((v1_abcmiz_1\ X2)\wedge((v3_abcmiz_1\ X2)\wedge(l1_msualg_1\ X2))))\Rightarrow((m3_abcmiz_1\ (k4_tarski\ X0\ X1)\ X2)\Leftrightarrow(((v1_finset_1\ X0)\wedge(m1_subset_1\ X0\ (k1_zfmisc_1\ (k38_abcmiz_1\ X2))))\wedge((v9_abcmiz_1\ X1\ X2)\wedge(m1_abcmiz_1\ X1\ X2\ (k12_abcmiz_1\ X2))))))$$