

t54_abcmiz_a (TMU- vbW5M3K7YJUmjFHi2RjaUfSq5burrnGX)

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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 $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k28_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $r5_abcmiz_a : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r6_abcmiz_a : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_abcmiz_1 : \iota$ be given. Let $k56_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k54_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $v15_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k34_abcmiz_1 : \iota \Rightarrow \iota$ be given. Let $k45_abcmiz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \Rightarrow (\forall X2. \quad (1) \\ & (m1_subset_1 X2 (k1_zfmisc_1 k2_abcmiz_1)) \Rightarrow (k56_abcmiz_1 X0 \\ & (k54_abcmiz_1 X0 X2) X1 = X1)) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & k2_abcmiz_1)) \Rightarrow ((k1_reset_1 k2_abcmiz_1 (k54_abcmiz_1 X0 X1) = \\ & X1) \wedge (\forall X2.(m1_subset_1 X2 k2_abcmiz_1) \Rightarrow ((X2 \in X1) \Rightarrow (k1_funct_1 \\ & (k54_abcmiz_1 X0 X1) X2 = k35_abcmiz_1 X2 X0)))))) \quad (2) \end{aligned}$$

Assume the following.

$$\forall X0. \forall X1. r1_tarski X0 X0 \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge \\ & ((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(m1_subset_1\ X1\ (k1_zfmisc_1 \\ & k2_abcmiz_1)))\Rightarrow((v1_funct_1\ (k54_abcmiz_1\ X0\ X1))\wedge((v2_funct_1 \\ & (k54_abcmiz_1\ X0\ X1))\wedge(v15_abcmiz_1\ (k54_abcmiz_1\ X0\ X1)\ X0))) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge \\ & ((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(m1_subset_1\ X1\ (k1_zfmisc_1 \\ & k2_abcmiz_1)))\Rightarrow((v1_funct_1\ (k54_abcmiz_1\ X0\ X1))\wedge(m1_subset_1 \\ & (k54_abcmiz_1\ X0\ X1)\ (k1_zfmisc_1\ (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1 \\ & X0)))))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge \\ & ((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\wedge(m1_subset_1\ X1\ (k3_card_3 \\ & (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))))\Rightarrow(m1_subset_1 \\ & (k45_abcmiz_1\ X0\ X1)\ (k1_zfmisc_1\ k2_abcmiz_1)) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1 \\ & X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k3_card_3 \\ & (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))))\Rightarrow(\forall X2. \\ & (m1_subset_1\ X2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1 \\ & X0))))))\Rightarrow((r6_abcmiz_a\ X0\ X1\ X2)\Leftrightarrow(\exists X3.((v1_funct_1\ X3)\wedge \\ & ((v2_funct_1\ X3)\wedge((v15_abcmiz_1\ X3\ X0)\wedge(m1_subset_1\ X3\ (k1_zfmisc_1 \\ & (k2_zfmisc_1\ k2_abcmiz_1\ (k34_abcmiz_1\ X0))))))\wedge((r1_tarski \\ & (k45_abcmiz_1\ X0\ X2)\ (k1_relset_1\ k2_abcmiz_1\ X3))\wedge(r5_abcmiz_a \\ & X0\ X1\ (k56_abcmiz_1\ X0\ X3\ X2)))))) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.(((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1 \\ & X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k3_card_3 \\ & (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0))))))\Rightarrow(\forall X2. \\ & (m1_subset_1\ X2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1 \\ & X0))))))\Rightarrow((r5_abcmiz_a\ X0\ X1\ X2)\Rightarrow(r6_abcmiz_a\ X0\ X1\ X2))) \end{aligned}$$