

t77_abc Miz_1 (TMQKkEkGhXruVDz- z dqUVPHHsNgRRA6ymatL)

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Let $v1_instal g_1 : \iota \Rightarrow o$ be given. Let $v1_abc Miz_1 : \iota \Rightarrow o$ be given. Let $v3_abc Miz_1 : \iota \Rightarrow o$ be given. Let $l1_msual g_1 : \iota \Rightarrow o$ be given. Let $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v8_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $m3_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k28_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v3_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $u3_msual g_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_abc Miz_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $k7_abc Miz_1 : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xtuple_0 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v11_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_instal g_1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ X0) \wedge (l1_msual g_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow ((X1 \neq X2) \Rightarrow \\ (\forall X3.(m1_abc Miz_1 X3 X0 X1) \Rightarrow (\forall X4.(m1_abc Miz_1 X4 \\ X0 X2) \Rightarrow (X3 \neq X4)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_instal g_1 X0) \wedge ((v1_abc Miz_1 X0) \wedge (l1_msual g_1 \\ X0))) \Rightarrow ((v1_relat_1 (k28_abc Miz_1 X0)) \wedge ((\neg v3_relat_1 (k28_abc Miz_1 \\ X0)) \wedge ((v4_relat_1 (k28_abc Miz_1 X0) (u1_struct_0 X0)) \wedge ((v1_funct_1 \\ (k28_abc Miz_1 X0)) \wedge (v1_partfun1 (k28_abc Miz_1 X0) (u1_struct_0 \\ X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1.(((v1_instal g_1 X0) \wedge ((v1_abc Miz_1 X0) \wedge \\ ((v3_abc Miz_1 X0) \wedge (l1_msual g_1 X0)))) \wedge (m1_subset_1 X1 (u1_struct_0 \\ X0))) \Rightarrow (\forall X2.(m1_abc Miz_1 X2 X0 X1) \Rightarrow (m1_subset_1 X2 (k3_card_3 \\ (u3_msual g_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow((v1_relat_1\ (k28_abcmiz_1\ X0))\wedge((v4_relat_1\ (k28_abcmiz_1\ X0)\ (u1_struct_0\ X0))\wedge((v1_funct_1\ (k28_abcmiz_1\ X0))\wedge(v1_partfun1\ (k28_abcmiz_1\ X0)\ (u1_struct_0\ X0)))))) \quad (4)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(m1_subset_1\ (k14_abcmiz_1\ X0)\ (u1_struct_0\ X0)) \quad (5)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(m1_subset_1\ (k13_abcmiz_1\ X0)\ (u1_struct_0\ X0)) \quad (6)$$

Assume the following.

$$k8_abcmiz_1 = np_2 \quad (7)$$

Assume the following.

$$k7_abcmiz_1 = np_1 \quad (8)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(k14_abcmiz_1\ X0 = k8_abcmiz_1) \quad (9)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0)))\Rightarrow(k13_abcmiz_1\ X0 = k7_abcmiz_1) \quad (10)$$

Assume the following.

$$\forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1\ X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(\forall X1.(m3_abcmiz_1\ X1\ X0)\Rightarrow(v1_xtuple_0\ X1)) \quad (11)$$

Assume the following.

$$\forall X0.(l1_msualg_1\ X0)\Rightarrow(((v1_instalg1\ X0)\wedge(v1_abcmiz_1\ X0))\Rightarrow((\neg v2_struct_0\ X0)\wedge((\neg v11_struct_0\ X0)\wedge(v1_instalg1\ X0)))) \quad (12)$$

Assume the following.

$$\forall X0.\forall X1.(((\neg v11_struct_0\ X0)\wedge((v1_instalg1\ X0)\wedge(l1_msualg_1\ X0)))\wedge((v1_relat_1\ X1)\wedge((\neg v3_relat_1\ X1)\wedge((v4_relat_1\ X1\ (u1_struct_0\ X0))\wedge((v1_funct_1\ X1)\wedge(v1_partfun1\ X1\ (u1_struct_0\ X0))))))\Rightarrow(\forall X2.(m1_subset_1\ X2\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ X1))))\Rightarrow(\neg v1_xtuple_0\ X2)) \quad (13)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msual\!g_1 X0)))) \Rightarrow (\forall X1.(\neg(m1_abcmiz_1 X1 X0 (k14_abcmiz_1 \\ & X0)) \wedge ((v8_abcmiz_1 X1 X0) \wedge (m1_abcmiz_1 X1 X0 (k13_abcmiz_1 X0)))) \wedge \\ & ((\neg(m1_abcmiz_1 X1 X0 (k14_abcmiz_1 X0)) \wedge (m3_abcmiz_1 X1 X0)) \wedge \\ & (\neg(m3_abcmiz_1 X1 X0) \wedge ((v8_abcmiz_1 X1 X0) \wedge (m1_abcmiz_1 X1 X0 \\ & (k13_abcmiz_1 X0))))) \end{aligned}$$