

t95_abc Miz_1 (TMWxwqddR- PygdqQxsWh84mLC3zKtrEvS7Ba)

October 27, 2020

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 $k13_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $k46_abc\!miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k45_abc\!miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $k28_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abc\!miz_1 X0) \wedge ((v3_abc\!miz_1 \\ & X0) \wedge (l1_msual\!g_1 X0)))) \Rightarrow (\forall X1.(m1_abc\!miz_1 X1 X0 (k13_abc\!miz_1 \\ & X0)) \Rightarrow (k45_abc\!miz_1 X0 (k30_abc\!miz_1 X0 (k32_abc\!miz_1 X0) X1) = \\ & k45_abc\!miz_1 X0 X1)) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abc\!miz_1 X0) \wedge (l1_msual\!g_1 X0))) \Rightarrow (k32_abc\!miz_1 X0 = k15_abc\!miz_1 X0) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_instal\!g_1 X0) \wedge ((v1_abc\!miz_1 X0) \wedge \\ & ((v3_abc\!miz_1 X0) \wedge (l1_msual\!g_1 X0)))) \wedge (m1_subset_1 X1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X2.(m1_abc\!miz_1 X2 X0 X1) \Rightarrow (m1_subset_1 X2 (k3_card_3 \\ & (u3_msual\!g_1 X0 (k1_msafree3 X0 (k28_abc\!miz_1 X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (((v1_instalg1\ X0) \wedge ((v1_abcmiz_1 \\ & X0) \wedge ((v3_abcmiz_1\ X0) \wedge (l1_msualg_1\ X0)))) \wedge ((m1_subset_1\ X1 \\ & (u4_struct_0\ X0)) \wedge (m1_subset_1\ X2\ (k3_card_3\ (u3_msualg_1\ X0 \\ & (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \Rightarrow (m1_subset_1\ (k30_abcmiz_1 \\ & X0\ X1\ X2)\ (k3_card_3\ (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1 \\ & X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge (l1_msualg_1\ X0))) \Rightarrow (m1_subset_1\ (k15_abcmiz_1\ X0)\ (u4_struct_0\ X0)) \quad (5)$$

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.

$$\begin{aligned} & \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. (m1_subset_1\ X1\ (k3_card_3 \\ & (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \Rightarrow (k46_abcmiz_1 \\ & X0\ X1 = k1_abcmiz_1\ (k45_abcmiz_1\ X0\ X1)) \end{aligned} \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. (m1_abcmiz_1\ X1\ X0\ (k13_abcmiz_1 \\ & X0))) \Rightarrow (k46_abcmiz_1\ X0\ (k30_abcmiz_1\ X0\ (k32_abcmiz_1\ X0)\ X1) = \\ & k46_abcmiz_1\ X0\ X1) \end{aligned}$$