

t33_abc Miz_a

(TMaeFsSWEggsATofh4svRQgbYorXTMC7dao)

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Let $v1_instal1 : \iota \Rightarrow o$ 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 $m1_abc Miz_a : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_trees_2 : \iota \Rightarrow o$ be given. Let $k3_trees_9 : \iota \Rightarrow \iota$ be given. Let $v3_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v11_struct_0 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v3_trees_2 X0))) \Rightarrow (X0 \in k3_trees_9 X0) \quad (1)$$

Assume the following.

$$\forall X0.((v1_instal1 X0) \wedge ((v1_abc Miz_1 X0) \wedge (l1_msualg_1 X0))) \Rightarrow ((v1_relat_1 (k28_abc Miz_1 X0)) \wedge ((\neg v3_relat_1 (k28_abc Miz_1 X0)) \wedge ((v4_relat_1 (k28_abc Miz_1 X0) (u1_struct_0 X0)) \wedge ((v1_funct_1 (k28_abc Miz_1 X0)) \wedge (v1_partfun1 (k28_abc Miz_1 X0) (u1_struct_0 X0))))))) \quad (2)$$

Assume the following.

$$\forall X0.((v1_instal1 X0) \wedge ((v1_abc Miz_1 X0) \wedge (l1_msualg_1 X0))) \Rightarrow ((v1_relat_1 (k28_abc Miz_1 X0)) \wedge ((v4_relat_1 (k28_abc Miz_1 X0) (u1_struct_0 X0)) \wedge ((v1_funct_1 (k28_abc Miz_1 X0)) \wedge (v1_partfun1 (k28_abc Miz_1 X0) (u1_struct_0 X0)))))) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 \\ & X0)))))) \Rightarrow ((m1_abcmiz_a X2 X0 X1) \Leftrightarrow (X2 \in k3_trees_9 X1))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(l1_msualg_1 X0) \Rightarrow (((v2_struct_0 X0) \wedge (v1_instal\!g_1 X0)) \Rightarrow (v11_struct_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(l1_msualg_1 X0) \Rightarrow (((v1_instal\!g_1 X0) \wedge (v1_abcmiz_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge (v1_instal\!g_1 X0)))) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge \\ & (l1_msualg_1 X0))) \wedge ((v1_relat_1 X1) \wedge ((\neg v3_relat_1 X1) \wedge ((v4_relat_1 \\ & X1 (u1_struct_0 X0)) \wedge ((v1_funct_1 X1) \wedge (v1_partfun1 X1 (u1_struct_0 \\ & X0))))))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k3_card_3 (u3_msualg_1 \\ & X0 (k1_msafree3 X0 X1)))) \Rightarrow ((v1_finset_1 X2) \wedge (v3_trees_2 X2))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((\neg v2_struct_0 X0) \wedge ((\neg v11_struct_0 X0) \wedge \\ & (l1_msualg_1 X0))) \wedge ((v1_relat_1 X1) \wedge ((\neg v3_relat_1 X1) \wedge ((v4_relat_1 \\ & X1 (u1_struct_0 X0)) \wedge ((v1_funct_1 X1) \wedge (v1_partfun1 X1 (u1_struct_0 \\ & X0))))))) \Rightarrow (\forall X2.(m1_subset_1 X2 (k3_card_3 (u3_msualg_1 \\ & X0 (k1_msafree3 X0 X1)))) \Rightarrow ((v1_relat_1 X2) \wedge (v1_funct_1 X2))) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \Rightarrow (m1_abcmiz_a \\ & X1 X0 X1) \end{aligned}$$