

t23_abc Miz_a (TMNND- DenwE9XwD1rSN4RpMvP42VbwvrGaRj)

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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 $v1_abc Miz_a : \iota \Rightarrow o$ 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 $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k14_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k20_abc Miz_1 : \iota$ be given. Let $k8_abc Miz_1 : \iota$ be given. Let $k2_abc Miz_1 : \iota$ be given. Let $v5_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ & X0) \wedge ((v1_abc Miz_a X0) \wedge (l1_msualg_1 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))))) \Rightarrow \\ & (((\neg v5_abc Miz_1 X1 X0 (k28_abc Miz_1 X0)) \wedge (m1_abc Miz_1 X1 X0 (k14_abc Miz_1 \\ & X0))) \Leftrightarrow (k1_xtuple_0 (k1_funct_1 X1 k1_xboole_0) \in k2_abc Miz_1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ & X0) \wedge ((v1_abc Miz_a X0) \wedge (l1_msualg_1 X0)))))) \Rightarrow (\forall X1.(m1_abc Miz_1 \\ & X1 X0 (k14_abc Miz_1 X0)) \Rightarrow ((v5_abc Miz_1 X1 X0 (k28_abc Miz_1 X0)) \Leftrightarrow \\ & ((k1_xtuple_0 (k1_funct_1 X1 k1_xboole_0) \in k20_abc Miz_1) \wedge (k1_xtuple_0 \\ & (k1_xtuple_0 (k1_funct_1 X1 k1_xboole_0)) = k8_abc Miz_1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ & X0) \wedge ((v1_abc Miz_a X0) \wedge (l1_msualg_1 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))))) \Rightarrow \\ & (\neg (k1_xtuple_0 (k1_funct_1 X1 k1_xboole_0) \in k20_abc Miz_1) \wedge (\\ & \forall X2.(m1_subset_1 X2 (u4_struct_0 X0)) \Rightarrow (\neg (X2 = k1_xtuple_0 \\ & (k1_funct_1 X1 k1_xboole_0)) \wedge ((k2_msualg_1 X0 X2 = k1_xtuple_0 \\ & X2) \wedge (m1_abc Miz_1 X1 X0 (k2_msualg_1 X0 X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$k8_abcmiz_1 = np_2 \quad (4)$$

Assume the following.

$$\forall X0.((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge (l1_msualg_1 X0))) \Rightarrow (k14_abcmiz_1 X0 = k8_abcmiz_1) \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge ((v1_abcmiz_1 X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge ((v1_abcmiz_a X0) \wedge (l1_msualg_1 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (k3_card_3 (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abcmiz_1 X0)))))) \Rightarrow \\ & ((m1_abcmiz_1 X1 X0 (k14_abcmiz_1 X0)) \Leftrightarrow (((k1_xtuple_0 (k1_funct_1 \\ & X1 k1_xboole_0) \in k20_abcmiz_1) \wedge (k1_xtuple_0 (k1_xtuple_0 (k1_funct_1 \\ & X1 k1_xboole_0)) = k8_abcmiz_1)) \vee (k1_xtuple_0 (k1_funct_1 X1 \\ & k1_xboole_0) \in k2_abcmiz_1))) \end{aligned}$$