

t14_abc Miz_a
(TMZeRqvJT58rPp6K4bDvkTnGvtnTkSkk2ic)

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Let $v1_instal\!g1 : \iota \Rightarrow o$ 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 $l1_msual\!g_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $u3_msual\!g_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_msafree3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k2_abc\!miz_1 : \iota$ be given. Let $k2_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k8_abc\!miz_1 : \iota$ 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 $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k20_abc\!miz_1 : \iota$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k9_abc\!miz_1 : \iota$ be given. Let $k10_abc\!miz_1 : \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k34_abc\!miz_1 : \iota \Rightarrow \iota$ be given. Let $k35_abc\!miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (k1_xtuple_0 (k4_tarski X0 X1) = X0) \wedge (k2_xtuple_0 (k4_tarski X0 X1) = X1) \quad (1)$$

Assume the following.

$$\forall X0. (v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_instal\!g1 X1) \wedge ((v1_abc\!miz_1 X1) \wedge (v3_abc\!miz_1 X1) \wedge (l1_msual\!g_1 X1))) \Rightarrow ((m1_abc\!miz_1 X0 X1 (k14_abc\!miz_1 X1)) \Leftrightarrow (X0 \in k34_abc\!miz_1 X1)) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge ((v1_abcmiz_a\ X0) \wedge (l1_msual\!g_1\ X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1\ (k3_card_3\ (u3_msual\!g_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \Rightarrow \\ & (\neg(\forall X2.(m1_subset_1\ X2\ k2_abcmiz_1) \Rightarrow (\neg(X1 = k35_abcmiz_1 \\ & X2\ X0) \wedge (k1_funct_1\ X1\ k1_xboole_0 = k4_tarski\ X2\ k8_abcmiz_1))) \wedge \\ & (\forall X2.(m1_subset_1\ X2\ (u4_struct_0\ X0)) \Rightarrow (\neg(k1_funct_1 \\ & X1\ k1_xboole_0 = k4_tarski\ X2\ (u1_struct_0\ X0)) \wedge (\neg(\neg X2 \in k20_abcmiz_1) \wedge \\ & ((X2 \neq k9_abcmiz_1) \wedge (X2 \neq k10_abcmiz_1))))))))) \end{aligned} \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$\neg v1_xboole_0\ k2_abcmiz_1 \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((m1_subset_1\ X0\ k2_abcmiz_1) \wedge ((v1_instal\!g1 \\ & X1) \wedge ((v1_abcmiz_1\ X1) \wedge ((v3_abcmiz_1\ X1) \wedge (l1_msual\!g_1\ X1)))))) \Rightarrow \\ & (m1_abcmiz_1\ (k35_abcmiz_1\ X0\ X1)\ X1\ (k14_abcmiz_1\ X1)) \end{aligned} \quad (7)$$

Assume the following.

$$k9_abcmiz_1 = k6_numbers \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((\neg v1_xboole_0\ X0) \Rightarrow ((m1_subset_1\ X1\ X0) \Leftrightarrow \\ & (X1 \in X0))) \wedge ((v1_xboole_0\ X0) \Rightarrow ((m1_subset_1\ X1\ X0) \Leftrightarrow (v1_xboole_0 \\ & X1))) \end{aligned} \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instal\!g1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge ((v1_abcmiz_a\ X0) \wedge (l1_msual\!g_1\ X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1\ (k3_card_3\ (u3_msual\!g_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))) \Rightarrow \\ & (((k1_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) \in k2_abcmiz_1) \wedge ((\\ & k2_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) = k8_abcmiz_1) \wedge (m1_abcmiz_1 \\ & X1\ X0\ (k14_abcmiz_1\ X0)))) \vee ((k2_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) = \\ & u1_struct_0\ X0) \wedge (\neg(\neg(k1_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) \in \\ & k20_abcmiz_1) \wedge (k1_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) \in u4_struct_0 \\ & X0)) \wedge ((k1_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) \neq k9_abcmiz_1) \wedge \\ & (k1_xtuple_0\ (k1_funct_1\ X1\ k1_xboole_0) \neq k10_abcmiz_1))))))))) \end{aligned}$$