

t34_abc Miz_a (TMUGNYqJGJhGwwqxQfNu-
vBq6bkamAmUu5gw)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_abc Miz_1 : \iota$ be given. Let $v1_instalg1 : \iota \Rightarrow o$ 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 $k10_abc Miz_a : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k35_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $v5_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k28_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ 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 $k14_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $k1_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 X0 k2_abc Miz_1) \wedge ((v1_instalg1 \\ & X1) \wedge ((v1_abc Miz_1 X1) \wedge ((v3_abc Miz_1 X1) \wedge (l1_msualg_1 X1)))))) \Rightarrow \quad (1) \\ & (\neg v5_abc Miz_1 (k35_abc Miz_1 X0 X1) X1 (k28_abc Miz_1 X1)) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge \\ & ((v3_abc Miz_1 X0) \wedge (l1_msualg_1 X0)))) \wedge (m1_subset_1 X1 (u1_struct_0 \\ & X0))) \Rightarrow (\forall X2. (m1_abc Miz_1 X2 X0 X1) \Rightarrow (m1_subset_1 X2 (k3_card_3 \\ & (u3_msualg_1 X0 (k1_msafree3 X0 (k28_abc Miz_1 X0)))))) \quad (2) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((m1_subset_1 X0 k2_abc Miz_1) \wedge ((v1_instalg1 \\ & X1) \wedge ((v1_abc Miz_1 X1) \wedge ((v3_abc Miz_1 X1) \wedge (l1_msualg_1 X1)))))) \Rightarrow \quad (3) \\ & (m1_abc Miz_1 (k35_abc Miz_1 X0 X1) X1 (k14_abc Miz_1 X1)) \end{aligned}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge (l1_msualg_1 \\ & X0))) \Rightarrow (m1_subset_1 (k14_abc Miz_1 X0) (u1_struct_0 X0)) \quad (4) \end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((v1_instalg1\ X0)\wedge((v1_abcmiz_1\ X0)\wedge((v3_abcmiz_1 \\
& \quad X0)\wedge(l1_msualg_1\ X0))))\Rightarrow(\forall X1.(m1_subset_1\ X1\ (k3_card_3 \\
& \quad (u3_msualg_1\ X0\ (k1_msafree3\ X0\ (k28_abcmiz_1\ X0)))))\Rightarrow(((v5_abcmiz_1 \\
& \quad X1\ X0\ (k28_abcmiz_1\ X0))\Rightarrow(k10_abcmiz_a\ X0\ X1 = k1_xtuple_0\ (k1_funct_1 \\
& \quad X1\ k1_xboole_0)))\wedge((\neg v5_abcmiz_1\ X1\ X0\ (k28_abcmiz_1\ X0))\Rightarrow(k10_abcmiz_a \\
& \quad X0\ X1 = k1_xboole_0))))
\end{aligned}
\tag{5}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m1_subset_1\ X0\ k2_abcmiz_1)\Rightarrow(\forall X1.((v1_instalg1 \\
& \quad X1)\wedge((v1_abcmiz_1\ X1)\wedge((v3_abcmiz_1\ X1)\wedge(l1_msualg_1\ X1))))\Rightarrow \\
& \quad (k10_abcmiz_a\ X1\ (k35_abcmiz_1\ X0\ X1) = k1_xboole_0))
\end{aligned}$$