

t61_abc Miz_1

(TMWQpX4whWJ6qrqJthXzzL9edbATFfNStqe)

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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 $v7_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_abc Miz_1 : \iota \Rightarrow \iota$ be given. Let $v6_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k37_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_abc Miz_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.((\neg v6_abc Miz_1 X1 X0) \wedge (\\ m1_abc Miz_1 X1 X0 (k13_abc Miz_1 X0))) \Rightarrow (\exists X2.(m1_abc Miz_1 \\ X2 X0 (k13_abc Miz_1 X0)) \wedge ((X1 = k30_abc Miz_1 X0 (k32_abc Miz_1 X0 \\ X2) \wedge (k37_abc Miz_1 X0 X1 = X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.((v6_abc Miz_1 X1 X0) \wedge (m1_abc Miz_1 \\ X1 X0 (k13_abc Miz_1 X0))) \Rightarrow (k37_abc Miz_1 X0 X1 = k30_abc Miz_1 X0 \\ (k32_abc Miz_1 X0 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge ((v3_abc Miz_1 \\ X0) \wedge (l1_msualg_1 X0)))) \Rightarrow (\forall X1.(m1_abc Miz_1 X1 X0 (k13_abc Miz_1 \\ X0)) \Rightarrow (\forall X2.(m1_abc Miz_1 X2 X0 (k13_abc Miz_1 X0)) \Rightarrow ((k30_abc Miz_1 \\ X0 (k15_abc Miz_1 X0) X1 = k30_abc Miz_1 X0 (k15_abc Miz_1 X0) X2) \Rightarrow \\ (X1 = X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_instalg1 X0) \wedge ((v1_abc Miz_1 X0) \wedge (l1_msualg_1 \\ X0))) \Rightarrow (k32_abc Miz_1 X0 = k15_abc Miz_1 X0) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge \\ & ((v3_abcmiz_1\ X0) \wedge (l1_msualg_1\ X0)))) \wedge ((v6_abcmiz_1\ X1\ X0) \wedge \\ & (m1_abcmiz_1\ X1\ X0\ (k13_abcmiz_1\ X0)))) \Rightarrow ((\neg v6_abcmiz_1\ (k37_abcmiz_1 \\ & X0\ X1)\ X0) \wedge (v7_abcmiz_1\ (k37_abcmiz_1\ X0\ X1)\ X0)) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. (m1_abcmiz_1\ X1\ X0\ (k13_abcmiz_1 \\ & X0)) \Rightarrow ((v7_abcmiz_1\ X1\ X0) \Leftrightarrow (\exists X2. (m1_abcmiz_1\ X2\ X0\ (k13_abcmiz_1 \\ & X0)) \wedge ((v6_abcmiz_1\ X2\ X0) \wedge (X1 = k30_abcmiz_1\ X0\ (k32_abcmiz_1 \\ & X0)\ X2)))))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((v1_instalg1\ X0) \wedge ((v1_abcmiz_1\ X0) \wedge ((v3_abcmiz_1 \\ & X0) \wedge (l1_msualg_1\ X0)))) \Rightarrow (\forall X1. ((v7_abcmiz_1\ X1\ X0) \wedge (m1_abcmiz_1 \\ & X1\ X0\ (k13_abcmiz_1\ X0))) \Rightarrow (\exists X2. ((v6_abcmiz_1\ X2\ X0) \wedge (m1_abcmiz_1 \\ & X2\ X0\ (k13_abcmiz_1\ X0))) \wedge ((X1 = k30_abcmiz_1\ X0\ (k32_abcmiz_1 \\ & X0)\ X2) \wedge (k37_abcmiz_1\ X0\ X1 = X2)))) \end{aligned}$$