

## t59\_abc Miz\_1

(TMadwhN8mko2cMgdCcgqfn45m1WtuTZZFso)

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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  $v6\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow o$  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  $k37\_abc Miz_1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $k5\_trees_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_pre\_poly : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k6\_numbers : \iota$  be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instalg1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge ((v3\_abc Miz_1 \\ & X0) \wedge (l1\_msualg_1 X0)))) \Rightarrow (\forall X1.(m1\_abc Miz_1 X1 X0 (k13\_abc Miz_1 \\ & X0)) \Rightarrow ((v6\_abc Miz_1 X1 X0) \Leftrightarrow (\forall X2.(m1\_abc Miz_1 X2 X0 (k13\_abc Miz_1 \\ & X0)) \Rightarrow (X1 \neq k30\_abc Miz_1 X0 (k32\_abc Miz_1 X0 X2)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1\_instalg1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge ((v3\_abc Miz_1 \\ & X0) \wedge (l1\_msualg_1 X0)))) \Rightarrow (\forall X1.(m1\_abc Miz_1 X1 X0 (k13\_abc Miz_1 \\ & X0)) \Rightarrow (((\exists X2.(m1\_abc Miz_1 X2 X0 (k13\_abc Miz_1 X0)) \wedge (X1 = \\ & k30\_abc Miz_1 X0 (k32\_abc Miz_1 X0 X2)) \Rightarrow (k37\_abc Miz_1 X0 X1 = k5\_trees_2 \\ & X1 (k3\_pre\_poly k5\_numbers k6\_numbers))) \wedge ((\forall X2.(m1\_abc Miz_1 \\ & X2 X0 (k13\_abc Miz_1 X0)) \Rightarrow (X1 \neq k30\_abc Miz_1 X0 (k32\_abc Miz_1 X0 \\ & X2)) \Rightarrow (k37\_abc Miz_1 X0 X1 = k30\_abc Miz_1 X0 (k32\_abc Miz_1 X0 X1)))))) \end{aligned} \quad (2)$$

### Theorem 1

$$\begin{aligned} & \forall X0.((v1\_instalg1 X0) \wedge ((v1\_abc Miz_1 X0) \wedge ((v3\_abc Miz_1 \\ & X0) \wedge (l1\_msualg_1 X0)))) \Rightarrow (\forall X1.((v6\_abc Miz_1 X1 X0) \wedge (m1\_abc Miz_1 \\ & X1 X0 (k13\_abc Miz_1 X0))) \Rightarrow (k37\_abc Miz_1 X0 X1 = k30\_abc Miz_1 X0 \\ & (k32\_abc Miz_1 X0 X1))) \end{aligned}$$