

t55_algspec1
(TMaJVuhVGAstAb93ZkEQf3vtNp9fsgNyVtE)

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Let $v11_struct_0 : \iota \Rightarrow o$ be given. Let $v1_instalg1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $v1_msualg_6 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l3_msualg_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m4_algspec1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_algspec1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m3_algspec1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (m2_algspec1 X0 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ (m3_algspec1 X1) \Rightarrow ((m4_algspec1 X1 X0) \Leftrightarrow (\exists X2.((\neg v11_struct_0 \\ X2) \wedge (m2_algspec1 X2 X0)) \wedge ((v1_msualg_6 X1 X2) \wedge (l3_msualg_1 X1 \\ X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(m3_algspec1 X0) \Leftrightarrow (\exists X1.((\neg v11_struct_0 X1) \wedge \\ ((v1_instalg1 X1) \wedge (l1_msualg_1 X1))) \wedge ((v1_msualg_6 X0 X1) \wedge (\\ l3_msualg_1 X0 X1))) \quad (3)$$

Theorem 1

$$\forall X0.((\neg v11_struct_0 X0) \wedge ((v1_instalg1 X0) \wedge (l1_msualg_1 \\ X0))) \Rightarrow (\forall X1.((v1_msualg_6 X1 X0) \wedge (l3_msualg_1 X1 X0)) \Rightarrow \\ (m4_algspec1 X1 X0))$$