

t56_algspec1 (TMGe- MUoe5gNo7We1DDHd6JSo4G3T8URKWcD)

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

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. (m2_algspec1 X1 X0) \Rightarrow (\forall X2. (m2_algspec1 X2 X1) \Rightarrow (m2_algspec1 X2 X0))) \quad (1)$$

Assume the following.

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. (m4_algspec1 X1 X0) \Rightarrow (m3_algspec1 X1)) \quad (2)$$

Assume the following.

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. (m2_algspec1 X1 X0) \Rightarrow ((v1_instalg1 X1) \wedge (l1_msualg_1 X1))) \quad (3)$$

Assume the following.

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. (m3_algspec1 X1) \Rightarrow ((m4_algspec1 X1 X0) \Leftrightarrow (\exists X2. ((\neg v11_struct_0 X2) \wedge (m2_algspec1 X2 X0)) \wedge ((v1_msualg_6 X1 X2) \wedge (l3_msualg_1 X1 X2))))) \quad (4)$$

Theorem 1

$$\forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. (m2_algspec1 X1 X0) \Rightarrow (\forall X2. (m4_algspec1 X2 X1) \Rightarrow (m4_algspec1 X2 X0)))$$