

t46_algspec1 (TM-
baVpJQnZGTG1iQEPgXzToouAvK2RdtQg)

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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 $m1_instalg1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instalg1 X1 X0) \Rightarrow (\forall X2.(m1_instalg1 X2 X1) \Rightarrow (m1_instalg1 \\ & X2 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m2_algspec1 X1 X0) \Rightarrow ((v1_instalg1 X1) \wedge (l1_msualg_1 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & ((v1_instalg1 X1) \wedge (l1_msualg_1 X1)) \Rightarrow ((m2_algspec1 X1 X0) \Leftrightarrow (m1_instalg1 \\ & X0 X1))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instalg1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m2_algspec1 X1 X0) \Rightarrow (\forall X2.(m2_algspec1 X2 X1) \Rightarrow (m2_algspec1 \\ & X2 X0))) \end{aligned}$$