

t17_instalg1

(TMPM4wtdQp1fD3JmGGYERpxHfaC6HMSoCAj)

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Let $v1_instal\!g_1 : \iota \Rightarrow o$ be given. Let $l1_msualg_1 : \iota \Rightarrow o$ be given. Let $m1_instal\!g_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g1_msualg_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_msualg_1 : \iota \Rightarrow \iota$ be given. Let $u2_msualg_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instal\!g_1 X1 X0) \Rightarrow ((r1_tarski (u2_msualg_1 X1) (u2_msualg_1 \\ & X0)) \wedge (r1_tarski (u1_msualg_1 X1) (u1_msualg_1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instal\!g_1 X1 X0) \Rightarrow ((r1_tarski (u1_struct_0 X1) (u1_struct_0 \\ & X0)) \wedge (r1_tarski (u4_struct_0 X1) (u4_struct_0 X0)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instal\!g_1 X1 X0) \Rightarrow (l1_msualg_1 X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X0 = X1) \Leftrightarrow ((r1_tarski X0 X1) \wedge (r1_tarski X1 X0)) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instal\!g_1 X1 X0) \Rightarrow (v1_instal\!g_1 X1)) \end{aligned} \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v1_instal\!g_1 X0) \wedge (l1_msualg_1 X0)) \Rightarrow (\forall X1. \\ & (m1_instal\!g_1 X1 X0) \Rightarrow ((m1_instal\!g_1 X0 X1) \Rightarrow (g1_msualg_1 (u1_struct_0 \\ & X0) (u4_struct_0 X0) (u1_msualg_1 X0) (u2_msualg_1 X0) = g1_msualg_1 \\ & (u1_struct_0 X1) (u4_struct_0 X1) (u1_msualg_1 X1) (u2_msualg_1 \\ & X1)))) \end{aligned}$$