

t67_group_9

(TMS8YP82hFUfDum34sTLrPGKUQj3FrMS2vU)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v15_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_group_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_group_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $l1_group_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $g3_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge ((v15_algstr_0 X1) \wedge \\ & ((v2_group_1 X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 X1)))))) \Rightarrow (\exists X2. \\ & ((\neg v2_struct_0 X2) \wedge (l1_group_9 X2 X0)) \wedge ((v2_group_9 X2 X0) \wedge \\ & (v3_group_9 X2 X0) \wedge ((v2_group_1 X2) \wedge ((v3_group_1 X2) \wedge (X1 = g3_algstr_0 \\ & (u1_struct_0 X2) (u2_algstr_0 X2))))))) \end{aligned} \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge ((v15_algstr_0 X1) \wedge \\ & ((v2_group_1 X1) \wedge ((v3_group_1 X1) \wedge (l3_algstr_0 X1)))))) \Rightarrow (\exists X2. \\ & ((\neg v2_struct_0 X2) \wedge ((v2_group_1 X2) \wedge ((v3_group_1 X2) \wedge ((v2_group_9 \\ & X2 X0) \wedge ((v3_group_9 X2 X0) \wedge (l1_group_9 X2 X0)))))) \wedge (X1 = g3_algstr_0 \\ & (u1_struct_0 X2) (u2_algstr_0 X2))) \end{aligned}$$