

t11_semi_af1
 (TMc6T8XZagwmzx6TaAKny4Sp9io1fnxDrn9)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_semi_af1 : \iota \Rightarrow o$ be given. Let $l1_analoaf : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r2_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_semi_af1 X0) \wedge (l1_analoaf \\
 & \quad X0))) \Rightarrow (\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\
 & \quad (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3. (m1_subset_1 X3 \\
 & \quad (u1_struct_0 X0)) \Rightarrow ((r2_analoaf X0 X1 X2 X1 X3) \Rightarrow ((r2_analoaf X0 \\
 & \quad X1 X3 X1 X2) \wedge ((r2_analoaf X0 X2 X1 X1 X3) \wedge ((r2_analoaf X0 X1 X2 X3 X1) \wedge \\
 & \quad ((r2_analoaf X0 X1 X3 X2 X1) \wedge ((r2_analoaf X0 X2 X1 X3 X1) \wedge ((r2_analoaf \\
 & \quad X0 X3 X1 X1 X2) \wedge ((r2_analoaf X0 X3 X1 X2 X1) \wedge ((r2_analoaf X0 X2 X1 X2 \\
 & \quad X3) \wedge ((r2_analoaf X0 X1 X2 X2 X3) \wedge ((r2_analoaf X0 X2 X1 X3 X2) \wedge ((r2_analoaf \\
 & \quad X0 X2 X3 X2 X1) \wedge ((r2_analoaf X0 X1 X2 X3 X2) \wedge ((r2_analoaf X0 X3 X2 X2 \\
 & \quad X1) \wedge ((r2_analoaf X0 X2 X3 X1 X2) \wedge ((r2_analoaf X0 X3 X2 X1 X2) \wedge ((r2_analoaf \\
 & \quad X0 X3 X1 X3 X2) \wedge ((r2_analoaf X0 X1 X3 X3 X2) \wedge ((r2_analoaf X0 X3 X1 X2 \\
 & \quad X3) \wedge ((r2_analoaf X0 X1 X3 X2 X3) \wedge ((r2_analoaf X0 X3 X2 X3 X1) \wedge ((r2_analoaf \\
 & \quad X0 X2 X3 X3 X1) \wedge ((r2_analoaf X0 X3 X2 X1 X3) \wedge (r2_analoaf X0 X2 X3 X1 \\
 & \quad X3))))))))))))))))))))))
 \end{aligned}
 \tag{1}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_semi_af1 X0) \wedge (l1_analoaf \\ & X0))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow \\ & (((r2_analoaf X0 X1 X2 X1 X3) \wedge ((r2_analoaf X0 X2 X4 X2 X3) \wedge (r2_analoaf \\ & X0 X4 X1 X4 X3))) \Rightarrow (r2_analoaf X0 X1 X2 X1 X4)))))) \end{aligned}$$