

t5_pardepap (TMEwGpLdnKiHdvTC-
pLgWYGqiFCPkQXACUhk)

October 27, 2020

Let $v7_struct_0 : \iota \Rightarrow o$ be given. Let $v1_diraf : \iota \Rightarrow o$ be given. Let $v2_diraf : \iota \Rightarrow o$ 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.

$$\begin{aligned}
 & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
 & \quad X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
 & \quad X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow ((r2_analoaf \\
 & X0 X1 X2 X3 X4) \Rightarrow ((r2_analoaf X0 X1 X2 X4 X3) \wedge (r2_analoaf X0 X2 X1 X3 \\
 & X4) \wedge (r2_analoaf X0 X2 X1 X4 X3) \wedge (r2_analoaf X0 X3 X4 X1 X2) \wedge (r2_analoaf \\
 & X0 X3 X4 X2 X1) \wedge (r2_analoaf X0 X4 X3 X1 X2) \wedge (r2_analoaf X0 X4 X3 X2 \\
 & \quad X1))))))))))))) \\
 & \tag{1}
 \end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge \\ & (l1_analoaf X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\exists X3. \\ & (m1_subset_1 X3 (u1_struct_0 X0)) \wedge (\forall X4.(m1_subset_1 X4 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 (u1_struct_0 X0)) \Rightarrow \\ & ((r2_analoaf X0 X1 X2 X1 X3) \wedge (\neg \forall X6.(m1_subset_1 X6 (u1_struct_0 \\ & X0)) \Rightarrow ((r2_analoaf X0 X1 X3 X1 X4) \wedge (\neg (r2_analoaf X0 X1 X5 X1 X6) \wedge (\\ & r2_analoaf X0 X3 X5 X4 X6)))))))))) \end{aligned}$$