

t2_pardepap
(TMNiyqx59kg615zYx2WFtpj1AL1bkmSERhV)

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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 $v4_aff_2 : \iota \Rightarrow o$ 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. Let $r1_aff_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge \\
& (l1_analoaf X0)))) \Rightarrow ((v4_aff_2 X0) \Leftrightarrow (\forall X1.(m1_subset_1 \\
& X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\
& X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. \\
& (m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 \\
& (u1_struct_0 X0)) \Rightarrow (\forall X6.(m1_subset_1 X6 (u1_struct_0 X0)) \Rightarrow \\
& (\forall X7.(m1_subset_1 X7 (u1_struct_0 X0)) \Rightarrow (((r1_aff_1 X0 \\
& X1 X2 X3) \wedge ((r1_aff_1 X0 X1 X4 X5) \wedge ((r1_aff_1 X0 X1 X6 X7) \wedge ((r2_analoaf \\
& X0 X2 X4 X3 X5) \wedge (r2_analoaf X0 X2 X6 X3 X7)))))) \Rightarrow ((r1_aff_1 X0 X1 X2 \\
& X4) \vee ((r1_aff_1 X0 X1 X2 X6) \vee (r2_analoaf X0 X4 X6 X5 X7))))))))) \\
& \tag{1}
\end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge (l1_analoaf X0))) \Rightarrow \\
& (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
& X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
& X0)) \Rightarrow ((r1_aff_1 X0 X1 X2 X3) \Leftrightarrow (r2_analoaf X0 X1 X2 X1 X3)))))) \\
& \tag{2}
\end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v7_struct_0 X0) \wedge ((v1_diraf X0) \wedge ((v2_diraf X0) \wedge \\ & (l1_analoaf X0)))) \Rightarrow ((v4_aff_2 X0) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ & X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4. \\ & (m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 \\ & (u1_struct_0 X0)) \Rightarrow (\forall X6.(m1_subset_1 X6 (u1_struct_0 X0)) \Rightarrow \\ & (\forall X7.(m1_subset_1 X7 (u1_struct_0 X0)) \Rightarrow (((r2_analoaf \\ X0 X1 X2 X1 X3) \wedge ((r2_analoaf X0 X1 X4 X1 X5) \wedge ((r2_analoaf X0 X1 X6 X1 \\ X7) \wedge ((r2_analoaf X0 X2 X4 X3 X5) \wedge (r2_analoaf X0 X2 X6 X3 X7)))))) \Rightarrow \\ ((r2_analoaf X0 X1 X2 X1 X4) \vee ((r2_analoaf X0 X1 X2 X1 X6) \vee (r2_analoaf \\ X0 X4 X6 X5 X7))))))))) \end{aligned}$$