

t8_dirort (TM-
SaLe3YgXUWGBZFMLQuamMkkm49oc3Wgay)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_dirort : \iota \Rightarrow o$ 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 $r2_dirort : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_analoaf : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_dirort X0) \wedge (l1_analoaf X0))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
 & \quad X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
 & \quad X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow ((r2_dirort \\
 & \quad X0 X1 X2 X3 X4) \Leftrightarrow (\exists X5.(m1_subset_1 X5 (u1_struct_0 X0)) \wedge (\\
 & \quad \exists X6.(m1_subset_1 X6 (u1_struct_0 X0)) \wedge ((X5 \neq X6) \wedge (r2_analoaf \\
 & \quad X0 X5 X6 X1 X2)) \wedge (r2_analoaf X0 X5 X6 X3 X4)))))))))) \quad (1)
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v1_dirort X0) \wedge (l1_analoaf X0))) \Rightarrow \\
 & (\forall X1.(m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 \\
 & \quad X2 (u1_struct_0 X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 \\
 & \quad X0)) \Rightarrow (\forall X4.(m1_subset_1 X4 (u1_struct_0 X0)) \Rightarrow ((r2_dirort \\
 & \quad X0 X1 X2 X3 X4) \Rightarrow (r2_dirort X0 X3 X4 X1 X2))))))
 \end{aligned}$$