

t19_tmap_1
(TMWH75NJz73wP2RiSqoFpn7fDbic3RHn2N9)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $m1_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_tsep_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
 & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge (m1_pre_topc X1 X0)) \Rightarrow (\\
 & \forall X2.((\neg v2_struct_0 X2) \wedge (m1_pre_topc X2 X0)) \Rightarrow (\forall X3. \\
 & ((\neg v2_struct_0 X3) \wedge (m1_pre_topc X3 X0)) \Rightarrow ((m1_pre_topc X1 X2) \Rightarrow \\
 & (((r1_tsep_1 X1 X3) \wedge (r1_tsep_1 X3 X1)) \vee ((\neg r1_tsep_1 X2 X3) \wedge (\neg \\
 & r1_tsep_1 X3 X2))))))))) \tag{1}
 \end{aligned}$$

Theorem 1

$$\begin{aligned}
 & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\
 & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge (m1_pre_topc X1 X0)) \Rightarrow (\\
 & \forall X2.((\neg v2_struct_0 X2) \wedge (m1_pre_topc X2 X0)) \Rightarrow (\forall X3. \\
 & ((\neg v2_struct_0 X3) \wedge (m1_pre_topc X3 X0)) \Rightarrow ((m1_pre_topc X1 X2) \Rightarrow \\
 & (((\neg r1_tsep_1 X2 X3) \wedge (\neg r1_tsep_1 X3 X2)) \vee ((r1_tsep_1 X1 X3) \wedge (\\
 & r1_tsep_1 X3 X1)))))))))
 \end{aligned}$$