

t33_yellow19 (TMWrSYGobaNGavXvPWrePzb- VBHDGN3sQ9aZ)

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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 $v1_compts_1 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v7_waybel_0 : \iota \Rightarrow o$ be given. Let $l1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r3_waybel_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_yellow_6 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow ((\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_orders_2 X1) \wedge ((\\ v7_waybel_0 X1) \wedge (l1_waybel_0 X1 X0)))))) \Rightarrow (\neg (X1 \in k6_yellow_6 X0) \wedge \\ (\forall X2.(m1_subset_1 X2 (u1_struct_0 X0)) \Rightarrow (\neg r3_waybel_9 \\ X0 X1 X2)))) \Rightarrow (v1_compts_1 X0) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow ((v1_compts_1 X0) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_orders_2 \\ X1) \wedge ((v7_waybel_0 X1) \wedge (l1_waybel_0 X1 X0)))))) \Rightarrow (\exists X2.(m1_subset_1 \\ X2 (u1_struct_0 X0)) \wedge (r3_waybel_9 X0 X1 X2))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow ((v1_compts_1 X0) \Leftrightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_orders_2 \\ X1) \wedge ((v7_waybel_0 X1) \wedge (l1_waybel_0 X1 X0)))))) \Rightarrow (\exists X2.(m1_subset_1 \\ X2 (u1_struct_0 X0)) \wedge (r3_waybel_9 X0 X1 X2))) \end{aligned}$$