

t41_waybel_9

(TMUjCNFEnEhAJkSybp1CikbgrDku4FT6vbL)

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Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v8_pre_topc : \iota \Rightarrow o$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $v1_compts_1 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v5_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_waybel_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_waybel_2 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v7_waybel_0 : \iota \Rightarrow o$ be given. Let $l1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v10_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_waybel_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_waybel_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_yellow_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((v2_pre_topc X0) \wedge ((v8_pre_topc X0) \wedge ((v3_orders_2 \\
& X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v1_lattice3 X0) \wedge \\
& ((v2_lattice3 X0) \wedge ((v1_compts_1 X0) \wedge (l1_waybel_9 X0)))))))) \Rightarrow \\
& ((\forall X1. (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (v5_pre_topc \\
& (k4_waybel_1 X0 X1) X0 X0)) \Rightarrow (\forall X1. ((\neg v2_struct_0 X1) \wedge ((\\
& v4_orders_2 X1) \wedge ((v7_waybel_0 X1) \wedge (l1_waybel_0 X1 X0)))) \Rightarrow ((\\
& v10_waybel_0 X1 X0) \Rightarrow ((r1_waybel_9 X0 X1) \wedge (k1_waybel_2 X0 X1 \in k10_yellow_6 \\
& X0 X1))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0. ((v2_pre_topc X0) \wedge ((v8_pre_topc X0) \wedge ((v3_orders_2 \\
& X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v1_lattice3 X0) \wedge \\
& ((v2_lattice3 X0) \wedge (l1_waybel_9 X0)))))))) \Rightarrow (((\forall X1. ((\\
& \neg v2_struct_0 X1) \wedge ((v4_orders_2 X1) \wedge ((v7_waybel_0 X1) \wedge (l1_waybel_0 \\
& X1 X0)))) \Rightarrow ((v10_waybel_0 X1 X0) \Rightarrow ((r1_waybel_9 X0 X1) \wedge (k1_waybel_2 \\
& X0 X1 \in k10_yellow_6 X0 X1)))) \wedge (\forall X1. (m1_subset_1 X1 (u1_struct_0 \\
& X0)) \Rightarrow (v5_pre_topc (k4_waybel_1 X0 X1) X0 X0)) \Rightarrow (v2_waybel_2 X0))
\end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_pre_topc\ X0)\wedge((v8_pre_topc\ X0)\wedge((v3_orders_2 \\ & X0)\wedge((v4_orders_2\ X0)\wedge((v5_orders_2\ X0)\wedge((v1_lattice3\ X0)\wedge \\ & ((v2_lattice3\ X0)\wedge((v1_compts_1\ X0)\wedge(l1_waybel_9\ X0)))))))\Rightarrow \\ & ((\forall X1.(m1_subset_1\ X1\ (u1_struct_0\ X0))\Rightarrow(v5_pre_topc \\ & (k4_waybel_1\ X0\ X1)\ X0\ X0))\Rightarrow(v2_waybel_2\ X0)) \end{aligned}$$