

t36_waybel14 (TMFyp-
KmuwGnb4yWZaHhA1y9jXpRkMXBfppq)

October 27, 2020

Let $v2_pre_topc : \iota \Rightarrow o$ 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 $v3_lattice3 : \iota \Rightarrow o$ be given. Let $v4_waybel11 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $v3_waybel_3 : \iota \Rightarrow o$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k5_waybel11 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v6_waybel_3 : \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $v1_compts_1 : \iota \Rightarrow o$ be given. Let $v4_yellow_8 : \iota \Rightarrow o$ be given. Let $v2_yellow_8 : \iota \Rightarrow o$ be given. Let $v6_pre_topc : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc X0))) \Rightarrow ((v6_waybel_3 X0) \Rightarrow (v3_waybel_3 (k2_yellow_1 (u1_pre_topc X0)))) \quad (1)$$

Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v1_lattice3 X0) \wedge ((v2_lattice3 X0) \wedge ((v3_lattice3 X0) \wedge ((v4_waybel11 X0) \wedge (l1_waybel_9 X0)))))))))) \Rightarrow ((v3_waybel_3 X0) \Rightarrow ((v1_compts_1 X0) \wedge ((v6_waybel_3 X0) \wedge ((v4_yellow_8 X0) \wedge (v2_yellow_8 X0)))))) \quad (2)$$

Assume the following.

$$\forall X0. ((v2_pre_topc X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v1_lattice3 X0) \wedge ((v2_lattice3 X0) \wedge ((v3_lattice3 X0) \wedge ((v4_waybel11 X0) \wedge (l1_waybel_9 X0)))))))))) \Rightarrow (k5_waybel11 X0 = u1_pre_topc X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v2_pre_topc\ X0)\wedge((v3_orders_2\ X0)\wedge((v4_orders_2 \\ & X0)\wedge((v5_orders_2\ X0)\wedge((v1_lattice3\ X0)\wedge((v2_lattice3\ X0)\wedge \\ & ((v3_lattice3\ X0)\wedge((v4_waybel11\ X0)\wedge(l1_waybel_9\ X0)))))))\Rightarrow \\ & ((\neg v2_struct_0\ X0)\wedge((v2_pre_topc\ X0)\wedge((v6_pre_topc\ X0)\wedge(l1_pre_topc \\ & X0)))) \end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned} & \forall X0.((v2_pre_topc\ X0)\wedge((v3_orders_2\ X0)\wedge((v4_orders_2 \\ & X0)\wedge((v5_orders_2\ X0)\wedge((v1_lattice3\ X0)\wedge((v2_lattice3\ X0)\wedge \\ & ((v3_lattice3\ X0)\wedge((v4_waybel11\ X0)\wedge(l1_waybel_9\ X0)))))))\Rightarrow \\ & ((v3_waybel_3\ X0)\Rightarrow(v3_waybel_3\ (k2_yellow_1\ (k5_waybel11\ X0)))) \end{aligned}$$