

t9_waybel33 (TMK-
BoXFcJMXeT8Uy1CP6z2VFPKAsWhnZJWa)

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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 $v24_waybel_0 : \iota \Rightarrow o$ be given. Let $v25_waybel_0 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k4_waybel28 : \iota \Rightarrow \iota$ be given. Let $k13_yellow_6 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_waybel28 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ X0) \wedge ((v24_waybel_0 X0) \wedge ((v25_waybel_0 X0) \wedge ((v2_lattice3 X0) \wedge \\ (l1_orders_2 X0))))))) \Rightarrow (\forall X1.((v3_orders_2 X1) \wedge ((v4_orders_2 \\ X1) \wedge ((v5_orders_2 X1) \wedge ((v24_waybel_0 X1) \wedge ((v25_waybel_0 X1) \wedge \\ (v2_lattice3 X1) \wedge (l1_orders_2 X1))))))) \Rightarrow ((g1_orders_2 (u1_struct_0 \\ X0) (u1_orders_2 X0) = g1_orders_2 (u1_struct_0 X1) (u1_orders_2 \\ X1)) \Rightarrow (k13_yellow_6 X0 (k3_waybel28 X0) = k13_yellow_6 X1 (k3_waybel28 \\ X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (k4_waybel28 \\ X0 = u1_pre_topc (k13_yellow_6 X0 (k3_waybel28 X0))) \tag{2}$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v2_lattice3 X0) \Rightarrow (\neg v2_struct_0 X0)) \tag{3}$$

Theorem 1

$$\begin{aligned} \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ X0) \wedge ((v24_waybel_0 X0) \wedge ((v25_waybel_0 X0) \wedge ((v2_lattice3 X0) \wedge \\ (l1_orders_2 X0))))))) \Rightarrow (\forall X1.((v3_orders_2 X1) \wedge ((v4_orders_2 \\ X1) \wedge ((v5_orders_2 X1) \wedge ((v24_waybel_0 X1) \wedge ((v25_waybel_0 X1) \wedge \\ (v2_lattice3 X1) \wedge (l1_orders_2 X1))))))) \Rightarrow ((g1_orders_2 (u1_struct_0 \\ X0) (u1_orders_2 X0) = g1_orders_2 (u1_struct_0 X1) (u1_orders_2 \\ X1)) \Rightarrow (k4_waybel28 X0 = k4_waybel28 X1))) \end{aligned}$$