

t2_lattice8

(TMG6yCmNmFJG8zgxHJg739Yq5dmKuKR0Byi)

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Let $v7_struct_0 : \iota \Rightarrow o$ 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 $v2_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_yellow11 : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $v13_struct_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $v2_waybel_1 : \iota \Rightarrow o$ be given. Let $v10_waybel_1 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (l1_struct_0 X0) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow & (((v13_struct_0 X0 np_1) \wedge (v3_orders_2 \\ X0) \Rightarrow & ((v13_struct_0 X0 np_1) \wedge ((v3_orders_2 X0) \wedge ((v2_waybel_1 \\ X0) \wedge & (v10_waybel_1 X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v2_lattice3 X0) \Rightarrow (\neg v2_struct_0 X0)) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow & (((\neg v2_struct_0 X0) \wedge ((v3_orders_2 \\ X0) \wedge & ((v5_orders_2 X0) \wedge ((v2_lattice3 X0) \wedge (v2_waybel_1 X0)))))) \Rightarrow \\ ((\neg v2_struct_0 X0) \wedge & ((v3_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v2_lattice3 \\ X0) \wedge & (v1_yellow11 X0)))))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v7_struct_0 X0)) \Rightarrow (v13_struct_0 X0 np_1)) \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0.((v7_struct_0 X0) \wedge & ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ X0) \wedge & ((v5_orders_2 X0) \wedge ((v2_lattice3 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ & (v1_yellow11 X0) \end{aligned}$$