

t6_waybel22

(TMFo37rxY7TdeuYU8G9zHzXtz6UegWJKytY)

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Let $v2_struct_0 : \iota \Rightarrow o$ 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 $v2_yellow_0 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k8_waybel_0 : \iota \Rightarrow \iota$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_yellow_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v7_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v1_yellow_0 : \iota \Rightarrow o$ be given. Let $k7_waybel_0 : \iota \Rightarrow \iota$ be given. Let $k7_lattice3 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (& (v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ & X0) \wedge ((v1_lattice3 X0) \wedge ((v1_yellow_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ & ((\neg v2_struct_0 (k2_yellow_1 (k7_waybel_0 X0))) \wedge ((v4_yellow_0 \\ & (k2_yellow_1 (k7_waybel_0 X0)) (k3_yellow_1 (u1_struct_0 X0))) \wedge \\ & ((v7_yellow_0 (k2_yellow_1 (k7_waybel_0 X0)) (k3_yellow_1 (u1_struct_0 \\ & X0))) \wedge ((v4_waybel_0 (k2_yellow_1 (k7_waybel_0 X0)) (k3_yellow_1 \\ & (u1_struct_0 X0))) \wedge (m1_yellow_0 (k2_yellow_1 (k7_waybel_0 X0)) \\ & (k3_yellow_1 (u1_struct_0 X0))))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge (l1_orders_2 X0)))) \Rightarrow (k8_waybel_0 X0 = k7_waybel_0 (k7_lattice3 X0)) \tag{2}$$

Assume the following.

$$\forall X0. (l1_orders_2 X0) \Rightarrow (u1_struct_0 X0 = u1_struct_0 (k7_lattice3 X0)) \tag{3}$$

Assume the following.

$$\forall X0. (\neg v1_xboole_0 X0) \Rightarrow ((\neg v2_struct_0 (k2_yellow_1 X0)) \wedge (v1_orders_2 (k2_yellow_1 X0))) \tag{4}$$

Assume the following.

$$\forall X0.((v2_lattice3\ X0)\wedge(l1_orders_2\ X0))\Rightarrow((v1_orders_2\ (k7_lattice3\ X0))\wedge(v1_lattice3\ (k7_lattice3\ X0))) \quad (5)$$

Assume the following.

$$\forall X0.((v3_orders_2\ X0)\wedge((v4_orders_2\ X0)\wedge((v5_orders_2\ X0)\wedge(l1_orders_2\ X0))))\Rightarrow((v1_orders_2\ (k7_lattice3\ X0))\wedge((v3_orders_2\ (k7_lattice3\ X0))\wedge((v4_orders_2\ (k7_lattice3\ X0))\wedge(v5_orders_2\ (k7_lattice3\ X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0)\wedge((v3_orders_2\ X0)\wedge((v4_orders_2\ X0)\wedge((v5_orders_2\ X0)\wedge((v2_yellow_0\ X0)\wedge(l1_orders_2\ X0))))))\Rightarrow(\neg v1_xboole_0\ (k8_waybel_0\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.((v2_yellow_0\ X0)\wedge(l1_orders_2\ X0))\Rightarrow((v1_orders_2\ (k7_lattice3\ X0))\wedge(v1_yellow_0\ (k7_lattice3\ X0))) \quad (8)$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow((v1_orders_2\ (k7_lattice3\ X0))\wedge(l1_orders_2\ (k7_lattice3\ X0))) \quad (9)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0\ X0)\wedge((v3_orders_2\ X0)\wedge((v4_orders_2\ X0)\wedge((v5_orders_2\ X0)\wedge((v2_yellow_0\ X0)\wedge((v2_lattice3\ X0)\wedge(l1_orders_2\ X0)))))))\Rightarrow((\neg v2_struct_0\ (k2_yellow_1\ (k8_waybel_0\ X0)))\wedge((v4_yellow_0\ (k2_yellow_1\ (k8_waybel_0\ X0))\ (k3_yellow_1\ (u1_struct_0\ X0)))\wedge((v7_yellow_0\ (k2_yellow_1\ (k8_waybel_0\ X0))\ (k3_yellow_1\ (u1_struct_0\ X0)))\wedge((v4_waybel_0\ (k2_yellow_1\ (k8_waybel_0\ X0))\ (k3_yellow_1\ (u1_struct_0\ X0)))\wedge(m1_yellow_0\ (k2_yellow_1\ (k8_waybel_0\ X0))\ (k3_yellow_1\ (u1_struct_0\ X0)))))))$$