

t20_waybel29
(TMJ3WSWEsMS9Y4fGgJJtiPGXQh2B1DuoY3Q)

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Let $k1_waybel25 : \iota \Rightarrow \iota$ be given. Let $k9_waybel18 : \iota$ be given. Let $k1_waybel29 : \iota \Rightarrow \iota$ be given. Let $k3_yellow_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $m1_yellow_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_waybel11 : \iota \Rightarrow o$ be given. Let $k1_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k1_wellord2 : \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $v3_lattice3 : \iota \Rightarrow o$ be given. 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 $v1_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_waybel_9 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $k3_lattice3 : \iota \Rightarrow \iota$ be given. Let $k1_lattice3 : \iota \Rightarrow \iota$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v24_waybel_0 : \iota \Rightarrow o$ be given. Let $v25_waybel_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. k3_yellow_1 X0 = k2_yellow_1 (k9_setfam_1 X0) \quad (1)$$

Assume the following.

$$m1_yellow_9 (k1_waybel25 k9_waybel18) (k3_yellow_1 np_1) \quad (2)$$

Assume the following.

$$v4_waybel11 (k1_waybel25 k9_waybel18) \quad (3)$$

Assume the following.

$$\forall X0. k1_yellow_1 X0 = k1_wellord2 X0 \quad (4)$$

Assume the following.

$$\forall X0. (v1_orders_2 (k3_yellow_1 X0)) \wedge (v3_lattice3 (k3_yellow_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0. (\neg v2_struct_0 (k3_yellow_1 X0)) \wedge ((v1_orders_2 (k3_yellow_1 X0)) \wedge ((v3_orders_2 (k3_yellow_1 X0)) \wedge ((v4_orders_2 (k3_yellow_1 X0)) \wedge (v5_orders_2 (k3_yellow_1 X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.(v1_orders_2 (k2_yellow_1 X0)) \wedge ((v3_orders_2 (k2_yellow_1 X0)) \wedge ((v4_orders_2 (k2_yellow_1 X0)) \wedge (v5_orders_2 (k2_yellow_1 X0)))) \quad (7)$$

Assume the following.

$$(v1_pre_topc k9_waybel18) \wedge (l1_pre_topc k9_waybel18) \quad (8)$$

Assume the following.

$$\forall X0.(v1_orders_2 (k2_yellow_1 X0)) \wedge (l1_orders_2 (k2_yellow_1 X0)) \quad (9)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow ((v1_waybel_9 (k1_waybel25 X0)) \wedge (l1_waybel_9 (k1_waybel25 X0))) \quad (10)$$

Assume the following.

$$\forall X0.k3_yellow_1 X0 = k3_lattice3 (k1_lattice3 X0) \quad (11)$$

Assume the following.

$$\forall X0.k2_yellow_1 X0 = g1_orders_2 X0 (k1_yellow_1 X0) \quad (12)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ (\forall X1.((v1_waybel_9 X1) \wedge ((v4_waybel11 X1) \wedge (m1_yellow_9 X1 X0))) \Rightarrow (X1 = k1_waybel29 X0)) \end{aligned} \quad (13)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge (v3_lattice3 X0))) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (v25_waybel_0 X0)))))) \quad (14)$$

Theorem 1 $k1_waybel25 k9_waybel18 = k1_waybel29 (k3_yellow_1 np_1)$.