

t30_waybel25

(TMHLd29foGj9k1k4ZVdkss6mjgW1cr6LyX)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $v6_pre_topc : \iota \Rightarrow o$ be given. Let $v1_waybel25 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v24_waybel_0 : \iota \Rightarrow o$ be given. Let $k1_waybel25 : \iota \Rightarrow \iota$ be given. Let $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_waybel_9 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_xboole_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v5_orders_2 \\ &X0) \wedge (l1_orders_2 X0)))) \Rightarrow ((v24_waybel_0 X0) \Leftrightarrow (\forall X1. ((\neg \\ v1_xboole_0 X1) \wedge ((v1_waybel_0 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 \\ &(u1_struct_0 X0))))) \Rightarrow (r1_yellow_0 X0 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v6_pre_topc X0) \wedge (l1_pre_topc X0)))) \Rightarrow ((v5_orders_2 (k1_waybel25 X0)) \wedge (v1_waybel_9 (k1_waybel25 X0))) \tag{2}$$

Assume the following.

$$\forall X0. (l1_pre_topc X0) \Rightarrow ((v3_orders_2 (k1_waybel25 X0)) \wedge (v1_waybel_9 (k1_waybel25 X0))) \tag{3}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_pre_topc X0)) \Rightarrow ((\neg v2_struct_0 (k1_waybel25 X0)) \wedge (v1_waybel_9 (k1_waybel25 X0))) \tag{4}$$

Assume the following.

$$\forall X0. ((v2_struct_0 X0) \wedge (l1_pre_topc X0)) \Rightarrow ((v2_struct_0 (k1_waybel25 X0)) \wedge (v1_waybel_9 (k1_waybel25 X0))) \tag{5}$$

Assume the following.

$$\forall X0.(l1_waybel_9 X0) \Rightarrow ((l1_pre_topc X0) \wedge (l1_orders_2 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow ((v1_waybel_9 (k1_waybel25 X0)) \wedge (l1_waybel_9 (k1_waybel25 X0))) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ X0))) \Rightarrow ((v1_waybel25 X0) \Leftrightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v1_waybel_0 \\ X1 (k1_waybel25 X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 \\ (k1_waybel25 X0)))))) \Rightarrow ((r1_yellow_0 (k1_waybel25 X0) X1) \wedge (\forall X2. \\ ((v3_pre_topc X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ X0)))) \Rightarrow (\neg (k1_yellow_0 (k1_waybel25 X0) X1 \in X2) \wedge (r1_xboole_0 \\ X1 X2)))))) \end{aligned} \quad (8)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v6_pre_topc \\ X0) \wedge ((v1_waybel25 X0) \wedge (l1_pre_topc X0)))) \Rightarrow (v24_waybel_0 (\\ k1_waybel25 X0))$$