

t15_waybel29
(TMFi1tDw42duEecL5PuEvrgkKhZQoPrTqsf)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ 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 $v24_waybel_0 : \iota \Rightarrow o$ be given. Let $v4_waybel11 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $k1_waybel29 : \iota \Rightarrow \iota$ be given. Let $g1_waybel_9 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_yellow_9 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_waybel_9 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ & X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ & (\forall X1. ((v4_waybel11 X1) \wedge (m1_yellow_9 X1 X0)) \Rightarrow (\forall X2. \\ & ((v4_waybel11 X2) \wedge (m1_yellow_9 X2 X0)) \Rightarrow (u1_pre_topc X1 = u1_pre_topc \\ & X2))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0))) \Rightarrow (\forall X2. \forall X3. (g1_orders_2 X0 X1 = g1_orders_2 \\ & X2 X3) \Rightarrow ((X0 = X2) \wedge (X1 = X3))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_orders_2 X0) \Rightarrow (m1_subset_1 (u1_orders_2 X0) (k1_zfmisc_1 \\ & (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_orders_2 X0) \Rightarrow (\forall X1. (m1_yellow_9 X1 X0) \Rightarrow \\ & (l1_waybel_9 X1)) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} & \forall X0. (l1_waybel_9 X0) \Rightarrow ((l1_pre_topc X0) \wedge (l1_orders_2 X0)) \end{aligned} \tag{5}$$

Assume the following.

$$\begin{aligned} \forall X0. (& \neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow & (6) \\ ((v1_waybel_9 (k1_waybel29 X0)) \wedge ((v4_waybel11 (k1_waybel29 \\ X0)) \wedge (m1_yellow_9 (k1_waybel29 X0) X0))) & \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_orders_2 X0) \Rightarrow (\forall X1. (l1_waybel_9 X1) \Rightarrow ((\\ m1_yellow_9 X1 X0) \Leftrightarrow (g1_orders_2 (u1_struct_0 X1) (u1_orders_2 \\ X1) = g1_orders_2 (u1_struct_0 X0) (u1_orders_2 X0)))) & (7) \end{aligned}$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_waybel_9 X0) \Rightarrow ((v1_waybel_9 X0) \Rightarrow (X0 = g1_waybel_9 \\ (u1_struct_0 X0) (u1_orders_2 X0) (u1_pre_topc X0))) & (8) \end{aligned}$$

Theorem 1

$$\begin{aligned} \forall X0. (& \neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge ((v3_orders_2 \\ X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v24_waybel_0 X0) \wedge \\ ((v4_waybel11 X0) \wedge (l1_waybel_9 X0)))))))) \Rightarrow (k1_waybel29 X0 = \\ g1_waybel_9 (u1_struct_0 X0) (u1_orders_2 X0) (u1_pre_topc X0)) & \end{aligned}$$