

t6_waybel26

(TMTvgE6AZTPSuVDzLYHa5FZkxGE24vwFmEK)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $r5_waybel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $u1_pre_topc : \iota \Rightarrow \iota$ be given. Let $k1_waybel26 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_waybel18 : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ 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 $v23_waybel_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_pre_topc : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_funct_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge ((v2_pre_topc X0) \wedge (l1_pre_topc \\ & X0))) \Rightarrow (\exists X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 (u1_struct_0 \\ & (k2_yellow_1 (u1_pre_topc X0))) (u1_struct_0 (k1_waybel26 X0 \\ & k9_waybel18))) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 \\ & (k2_yellow_1 (u1_pre_topc X0))) (u1_struct_0 (k1_waybel26 X0 \\ & k9_waybel18)))))) \wedge ((v23_waybel_0 X1 (k2_yellow_1 (u1_pre_topc \\ & X0)) (k1_waybel26 X0 k9_waybel18)) \wedge (\forall X2. ((v3_pre_topc \\ & X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow (k1_funct_1 \\ & X1 X2 = k5_funct_3 X2 (u1_struct_0 X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$(\neg v2_struct_0 k9_waybel18) \wedge ((v1_pre_topc k9_waybel18) \wedge (v2_pre_topc k9_waybel18)) \tag{2}$$

Assume the following.

$$(v1_pre_topc k9_waybel18) \wedge (l1_pre_topc k9_waybel18) \tag{3}$$

Assume the following.

$$\forall X0. (v1_orders_2 (k2_yellow_1 X0)) \wedge (l1_orders_2 (k2_yellow_1 X0)) \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge \\ (l1_pre_topc X0)))\wedge((\neg v2_struct_0 X1)\wedge((v2_pre_topc X1)\wedge(l1_pre_topc \\ X1))))\Rightarrow((\neg v2_struct_0 (k1_waybel26 X0 X1))\wedge((v1_orders_2 (k1_waybel26 \\ X0 X1))\wedge(l1_orders_2 (k1_waybel26 X0 X1)))) \end{aligned} \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0)\Rightarrow(\forall X1.(l1_orders_2 X1)\Rightarrow((\\ r5_waybel_1 X0 X1)\Leftrightarrow(\exists X2.((v1_funct_1 X2)\wedge((v1_funct_2 \\ X2 (u1_struct_0 X0) (u1_struct_0 X1))\wedge(m1_subset_1 X2 (k1_zfmisc_1 \\ (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X1))))))\wedge(v23_waybel_0 \\ X2 X0 X1)))) \end{aligned} \quad (6)$$

Theorem 1

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0)\wedge((v2_pre_topc X0)\wedge(l1_pre_topc \\ X0)))\Rightarrow(r5_waybel_1 (k2_yellow_1 (u1_pre_topc X0)) (k1_waybel26 \\ X0 k9_waybel18)) \end{aligned}$$