

t18_waybel29 (TMJeRtYLAbnVMexDzMmR- brKPcD7n24jL2J1)

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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 $v3_orders_2 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $v5_orders_2 : \iota \Rightarrow o$ be given. Let $v4_waybel11 : \iota \Rightarrow o$ be given. Let $v1_lattice3 : \iota \Rightarrow o$ be given. Let $v2_lattice3 : \iota \Rightarrow o$ be given. Let $v3_lattice3 : \iota \Rightarrow o$ be given. Let $l1_waybel_9 : \iota \Rightarrow o$ be given. Let $k1_waybel26 : \iota \Rightarrow \iota$ be given. Let $k3_waybel24 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_waybel25 : \iota \Rightarrow \iota$ 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 $g1_pre_topc : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_waybel_9 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (& (v2_pre_topc X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ & X0) \wedge ((v5_orders_2 X0) \wedge ((v1_lattice3 X0) \wedge ((v2_lattice3 X0) \wedge \\ & ((v3_lattice3 X0) \wedge ((v4_waybel11 X0) \wedge (l1_waybel_9 X0)))))))))) \Rightarrow \\ & (k1_waybel25 X0 = g1_waybel_9 (u1_struct_0 X0) (u1_orders_2 X0) \\ & (u1_pre_topc X0)) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (l1_pre_topc X0) \Rightarrow (\forall X1. (l1_pre_topc X1) \Rightarrow ((\\ g1_pre_topc (u1_struct_0 X0) (u1_pre_topc X0) = g1_pre_topc (u1_struct_0 \\ X1) (u1_pre_topc X1)) \Rightarrow (\forall X2. ((\neg v2_struct_0 X2) \wedge (l1_waybel_9 \\ X2)) \Rightarrow (\forall X3. ((\neg v2_struct_0 X3) \wedge (l1_waybel_9 X3)) \Rightarrow ((g1_waybel_9 \\ (u1_struct_0 X2) (u1_orders_2 X2) (u1_pre_topc X2) = g1_waybel_9 \\ (u1_struct_0 X3) (u1_orders_2 X3) (u1_pre_topc X3)) \Rightarrow (k3_waybel24 \\ X0 X2 = k3_waybel24 X1 X3)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_pre_topc X0)) \Rightarrow ((\neg v2_struct_0 \\ (k1_waybel25 X0)) \wedge (v1_waybel_9 (k1_waybel25 X0))) \quad (3)$$

Assume the following.

$$\forall X0. (l1_waybel_9 X0) \Rightarrow ((l1_pre_topc X0) \wedge (l1_orders_2 X0)) \quad (4)$$

Assume the following.

$$\forall X0.(l1_pre_topc\ X0)\Rightarrow((v1_waybel_9\ (k1_waybel25\ X0))\wedge (l1_waybel_9\ (k1_waybel25\ X0))) \quad (5)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0\ X0)\wedge((v2_pre_topc\ X0)\wedge(l1_pre_topc\ X0)))\Rightarrow(\forall X1.((\neg v2_struct_0\ X1)\wedge((v2_pre_topc\ X1)\wedge(l1_pre_topc\ X1))))\Rightarrow(k1_waybel26\ X0\ X1 = k3_waybel24\ X0\ (k1_waybel25\ X1)) \quad (6)$$

Assume the following.

$$\forall X0.(l1_orders_2\ X0)\Rightarrow((v2_lattice3\ X0)\Rightarrow(\neg v2_struct_0\ X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l1_waybel_9\ X0)\Rightarrow((v1_waybel_9\ X0)\Rightarrow(X0 = g1_waybel_9\ (u1_struct_0\ X0)\ (u1_orders_2\ X0)\ (u1_pre_topc\ X0))) \quad (8)$$

Theorem 1

$$\forall X0.((\neg v2_struct_0\ X0)\wedge((v2_pre_topc\ X0)\wedge(l1_pre_topc\ X0)))\Rightarrow(\forall X1.((v2_pre_topc\ X1)\wedge((v3_orders_2\ X1)\wedge((v4_orders_2\ X1)\wedge((v5_orders_2\ X1)\wedge((v4_waybel11\ X1)\wedge((v1_lattice3\ X1)\wedge((v2_lattice3\ X1)\wedge((v3_lattice3\ X1)\wedge(l1_waybel_9\ X1))))))))))\Rightarrow(k1_waybel26\ X0\ X1 = k3_waybel24\ X0\ X1))$$