

t15_waybel10
(TMJjGHboe9KsaY2yuJqSzu9JBaPPkhP4Zd8)

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Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k3_waybel10 : \iota \Rightarrow \iota$ be given. Let $r1_orders_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow ((\neg v2_struct_0 (k3_waybel10 X0)) \wedge \\ ((v1_orders_2 (k3_waybel10 X0)) \wedge (l1_orders_2 (k3_waybel10 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge \\ ((v1_orders_2 X1) \wedge (l1_orders_2 X1))) \Rightarrow ((X1 = k3_waybel10 X0) \Leftrightarrow \\ ((\forall X2.(m1_subset_1 X2 (u1_struct_0 X1)) \Leftrightarrow ((v1_orders_2 \\ X2) \wedge (m1_yellow_0 X2 X0))) \wedge (\forall X2.(m1_subset_1 X2 (u1_struct_0 \\ X1)) \Rightarrow (\forall X3.(m1_subset_1 X3 (u1_struct_0 X1)) \Rightarrow ((r1_orders_2 \\ X1 X2 X3) \Leftrightarrow (\exists X4.(l1_orders_2 X4) \wedge ((X3 = X4) \wedge (m1_yellow_0 \\ X2 X4)))))))))) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(l1_orders_2 X1) \Rightarrow (\forall X2. \\ (m1_subset_1 X2 (u1_struct_0 (k3_waybel10 X0))) \Rightarrow (\forall X3. \\ (m1_subset_1 X3 (u1_struct_0 (k3_waybel10 X0))) \Rightarrow ((X3 = X1) \Rightarrow ((\\ r1_orders_2 (k3_waybel10 X0) X2 X3) \Leftrightarrow (m1_yellow_0 X2 X1)))))) \end{aligned}$$