

t58_yellow_4

(TMVF_{qySLLsvYbKc1nNz9ffZSKHEpUFrXt2Y})

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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 $v2_lattice3 : \iota \Rightarrow o$ be given. 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 $k2_yellow_1 : \iota \Rightarrow \iota$ be given. Let $k7_waybel_0 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k12_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_yellow_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v12_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k11_lattice3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge ((v5_orders_2 X0) \wedge ((v2_lattice3 \\ & X0) \wedge (l1_orders_2 X0)))) \Rightarrow (\forall X1.((v12_waybel_0 X1 X0) \wedge (\\ & m1_subset_1 X1 (k1_zfmisc_1 (u1_struct_0 X0)))) \Rightarrow (\forall X2. \\ & ((v12_waybel_0 X2 X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ & X0)))) \Rightarrow (k4_yellow_4 X0 X1 X2 = k9_subset_1 (u1_struct_0 X0) X1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v3_orders_2 X0) \wedge ((v4_orders_2 X0) \wedge ((v5_orders_2 \\ & X0) \wedge ((v2_lattice3 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 (u1_struct_0 (k2_yellow_1 (k7_waybel_0 X0)))) \Rightarrow (\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 (k2_yellow_1 (k7_waybel_0 X0)))) \Rightarrow \\ & (k11_lattice3 (k2_yellow_1 (k7_waybel_0 X0)) X1 X2 = k3_xboole_0 \\ & X1 X2))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((\neg v2_struct_0 X1) \wedge ((v3_orders_2 X1) \wedge \\ & ((v4_orders_2 X1) \wedge (l1_orders_2 X1)))) \Rightarrow ((m1_subset_1 X0 (u1_struct_0 \\ & (k2_yellow_1 (k7_waybel_0 X1)))) \Leftrightarrow ((\neg v1_xboole_0 X0) \wedge ((v1_waybel_0 \\ & X0 X1) \wedge ((v12_waybel_0 X0 X1) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ & X1))))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 X0))\Rightarrow(k9_subset_1 X0 X1 X2 = k3_xboole_0 X1 X2) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((v5_orders_2 X0)\wedge((v2_lattice3 X0)\wedge(l1_orders_2 X0)))\wedge((m1_subset_1 X1 (u1_struct_0 X0))\wedge(m1_subset_1 X2 (u1_struct_0 X0))))\Rightarrow(k12_lattice3 X0 X1 X2 = k11_lattice3 X0 X1 X2) \quad (5)$$

Assume the following.

$$\forall X0.(v1_orders_2 (k2_yellow_1 X0))\wedge((v3_orders_2 (k2_yellow_1 X0))\wedge((v4_orders_2 (k2_yellow_1 X0))\wedge(v5_orders_2 (k2_yellow_1 X0)))) \quad (6)$$

Assume the following.

$$\forall X0.((v3_orders_2 X0)\wedge((v4_orders_2 X0)\wedge((v5_orders_2 X0)\wedge((v2_lattice3 X0)\wedge(l1_orders_2 X0))))\Rightarrow((v1_orders_2 (k2_yellow_1 (k7_waybel_0 X0))\wedge(v2_lattice3 (k2_yellow_1 (k7_waybel_0 X0)))) \quad (7)$$

Assume the following.

$$\forall X0.(v1_orders_2 (k2_yellow_1 X0))\wedge(l1_orders_2 (k2_yellow_1 X0)) \quad (8)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0)\Rightarrow((v2_lattice3 X0)\Rightarrow(\neg v2_struct_0 X0)) \quad (9)$$

Theorem 1

$$\begin{aligned} & \forall X0.((v3_orders_2 X0)\wedge((v4_orders_2 X0)\wedge((v5_orders_2 X0)\wedge((v2_lattice3 X0)\wedge(l1_orders_2 X0))))\Rightarrow(\forall X1.(m1_subset_1 X1 (u1_struct_0 (k2_yellow_1 (k7_waybel_0 X0))))\Rightarrow(\forall X2. \\ & (m1_subset_1 X2 (u1_struct_0 (k2_yellow_1 (k7_waybel_0 X0))))\Rightarrow \\ & (\forall X3.(m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow \\ & (\forall X4.(m1_subset_1 X4 (k1_zfmisc_1 (u1_struct_0 X0)))\Rightarrow \\ & (((X1 = X3)\wedge(X2 = X4))\Rightarrow(k12_lattice3 (k2_yellow_1 (k7_waybel_0 X0)) X1 X2 = k4_yellow_4 X0 X3 X4)))))) \end{aligned}$$