

t27_yellow16

(TMLy92xL79TcVXnHNQsfis38pcSGcZ3epqu)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v4_orders_2 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v4_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v2_waybel_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k1_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_0 X1 X0) \Rightarrow \\ (\forall X2.(m1_yellow_0 X2 X1) \Rightarrow (m1_yellow_0 X2 X0))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((\neg v2_struct_0 X1) \wedge (l1_orders_2 X1)) \Rightarrow \\ (\forall X2.((\neg v2_struct_0 X2) \wedge (m1_yellow_0 X2 X1)) \Rightarrow (((v1_waybel_0 \\ X0 X2) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 X2)))) \Rightarrow ((v1_waybel_0 \\ X0 X1) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 X1)))))) \wedge (((\\ v2_waybel_0 X0 X2) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ X2)))) \Rightarrow ((v2_waybel_0 X0 X1) \wedge (m1_subset_1 X0 (k1_zfmisc_1 (u1_struct_0 \\ X1))))))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0.((\neg v2_struct_0 X0) \wedge ((v4_orders_2 X0) \wedge (l1_orders_2 \\ X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_yellow_0 X1 X0) \wedge (\\ v4_waybel_0 X1 X0) \wedge (m1_yellow_0 X1 X0)))) \Rightarrow (\forall X2.((v1_waybel_0 \\ X2 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X1)))) \Rightarrow ((r1_yellow_0 \\ X0 X2) \Rightarrow ((X2 = k1_xboole_0) \vee ((r1_yellow_0 X1 X2) \wedge (k1_yellow_0 \\ X1 X2 = k1_yellow_0 X0 X2)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(m1_yellow_0 X1 X0) \Rightarrow (l1_orders_2 X1)) \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ & (m1_yellow_0 X1 X0) \Rightarrow ((v4_waybel_0 X1 X0) \Leftrightarrow (\forall X2.((v1_waybel_0 \\ & X2 X1) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X1)))))) \Rightarrow ((r1_yellow_0 \\ & X0 X2) \Rightarrow ((X2 = k1_xboole_0) \vee (k1_yellow_0 X0 X2 \in u1_struct_0 X1)))))) \end{aligned} \quad (5)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v4_orders_2 X0) \wedge (l1_orders_2 \\ & X0))) \Rightarrow (\forall X1.((\neg v2_struct_0 X1) \wedge ((v4_yellow_0 X1 X0) \wedge (\\ & v4_waybel_0 X1 X0) \wedge (m1_yellow_0 X1 X0)))) \Rightarrow (\forall X2.((\neg v2_struct_0 \\ & X2) \wedge ((v4_waybel_0 X2 X1) \wedge (m1_yellow_0 X2 X1))) \Rightarrow ((v4_waybel_0 \\ & X2 X0) \wedge (m1_yellow_0 X2 X0)))) \end{aligned}$$