

t14_yellow_3
(TMd5833RzKti2cRYKhXuvcdUWMmKu7hmLb7)

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Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k3_yellow_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_orders_2 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $k2_yellow_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\exists X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \wedge (\neg v1_xboole_0 X1)) \quad (1)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \quad (2)$$

Assume the following.

$$\forall X0.((v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (v1_xboole_0 (u1_struct_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (l1_struct_0 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((l1_orders_2 X0) \wedge (l1_orders_2 X1)) \Rightarrow ((v1_orders_2 (k3_yellow_3 X0 X1)) \wedge (l1_orders_2 (k3_yellow_3 X0 X1))) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_orders_2 X0) \Rightarrow (\forall X1.(l1_orders_2 X1) \Rightarrow (\forall X2. \\ & ((v1_orders_2 X2) \wedge (l1_orders_2 X2)) \Rightarrow ((X2 = k3_yellow_3 X0 X1) \Leftrightarrow \\ & ((u1_struct_0 X2 = k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X1)) \wedge \\ & (u1_orders_2 X2 = k2_yellow_3 (u1_struct_0 X0) (u1_struct_0 X0) \\ & (u1_struct_0 X1) (u1_struct_0 X1) (u1_orders_2 X0) (u1_orders_2 \\ & X1)))))) \quad (6) \end{aligned}$$

Assume the following.

$$\forall X0.\forall X1.(v1_xboole_0 X0)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X1 X0)))\Rightarrow(v1_xboole_0 X2)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(v1_xboole_0 X0)\Rightarrow(\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_xboole_0 X2)) \quad (8)$$

Theorem 1

$$\forall X0.(l1_orders_2 X0)\Rightarrow(\forall X1.(l1_orders_2 X1)\Rightarrow((\neg v2_struct_0 (k3_yellow_3 X0 X1))\Rightarrow((\neg v2_struct_0 X0)\wedge(\neg v2_struct_0 X1))))$$