

t68_yellow_0 (TM-
JeEUBR6nUA3qxKyDwNU3Ck7k5yfRpRYHa)

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Let $v2_struct_0 : \iota \Rightarrow o$ 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 $v3_lattice3 : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $v4_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k1_yellow_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_yellow_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v4_orders_2 X0) \wedge (l1_orders_2 \\ &X0))) \Rightarrow (\forall X1. ((\neg v2_struct_0 X1) \wedge ((v4_yellow_0 X1 X0) \wedge (\\ &m1_yellow_0 X1 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 \\ &(u1_struct_0 X1))) \Rightarrow (((r1_yellow_0 X0 X2) \wedge (k1_yellow_0 X0 X2 \in \\ &u1_struct_0 X1)) \Rightarrow ((r1_yellow_0 X1 X2) \wedge (k1_yellow_0 X1 X2 = k1_yellow_0 \\ &X0 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v5_orders_2 X0) \wedge ((v3_lattice3 X0) \wedge (l1_orders_2 X0)))) \Rightarrow (\forall X1. (r1_yellow_0 X0 X1) \wedge (r2_yellow_0 X0 X1)) \tag{2}$$

Theorem 1

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v3_orders_2 X0) \wedge ((v4_orders_2 \\ &X0) \wedge ((v5_orders_2 X0) \wedge ((v3_lattice3 X0) \wedge (l1_orders_2 X0)))))) \Rightarrow \\ &(\forall X1. ((\neg v2_struct_0 X1) \wedge ((v4_yellow_0 X1 X0) \wedge (m1_yellow_0 \\ &X1 X0))) \Rightarrow (\forall X2. (m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 \\ &X1))) \Rightarrow ((k1_yellow_0 X0 X2 \in u1_struct_0 X1) \Rightarrow (k1_yellow_0 X1 X2 = \\ &k1_yellow_0 X0 X2)))) \end{aligned}$$