

t5_mycielsk
(TMZ5qJAUxC3i3D5HoBZDr1Go4niSfTo1s6q)

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Let $v1_necklace : \iota \Rightarrow o$ be given. Let $l1_orders_2 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_orders_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $r3_relat_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow (m1_subset_1 (u1_orders_2 X0) (k1_zfmisc_1 (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)))) \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_relat_1 X0) \Rightarrow (\forall X1.(r3_relat_2 X0 X1) \Leftrightarrow (\forall X2. \\ \forall X3.((X2 \in X1) \wedge ((X3 \in X1) \wedge (k4_tarski X2 X3 \in X0)))) \Rightarrow (k4_tarski \\ X3 X2 \in X0))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(l1_orders_2 X0) \Rightarrow ((v1_necklace X0) \Leftrightarrow (r3_relat_2 (u1_orders_2 X0) (u1_struct_0 X0))) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.((v1_necklace X0) \wedge (l1_orders_2 X0)) \Rightarrow (\forall X1. \\ \forall X2.((X1 \in u1_struct_0 X0) \wedge ((X2 \in u1_struct_0 X0) \wedge (k4_tarski \\ X1 X2 \in u1_orders_2 X0))) \Rightarrow (k4_tarski X2 X1 \in u1_orders_2 X0)) \end{aligned}$$