

t103_scmyciel (TM-
TahrD68h6szgKp9AQb7WE3m4enuGUxdmx)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1_scmyciel : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.\neg(k2_tarski \\ & X1 X2 \in k1_scmyciel (k12_scmyciel X0)) \wedge (\neg k2_tarski X1 X2 \in k1_scmyciel \\ & X0) \wedge (\neg((X1 \in k3_tarski X0) \vee (X1 = k3_tarski X0)) \wedge (\exists X3.(\\ & X3 \in k3_tarski X0) \wedge (X2 = k4_tarski X3 (k3_tarski X0)))) \wedge (\neg((X2 \in \\ & k3_tarski X0) \vee (X2 = k3_tarski X0)) \wedge (\exists X3.(X3 \in k3_tarski \\ & X0) \wedge (X1 = k4_tarski X3 (k3_tarski X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (k5_card_1 (k2_tarski X0 X1) = np_2) \quad (2)$$

Assume the following.

$$\forall X0.k2_tarski X0 X0 = k1_tarski X0 \quad (3)$$

Assume the following.

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.(X1 \in k3_tarski X0) \Leftrightarrow (k1_tarski X1 \in X0)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\neg k4_tarski X0 X1 \in X1 \quad (5)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.v1_finset_1 (k2_tarski X0 X1) \quad (7)$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_scmyciel X0) (k1_zfmisc_1 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow((X1 = k1_scmyciel X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow((X2 \in X0)\wedge(k1_card_1 X2 = np_2)))) \quad (9)$$

Theorem 1

$$\forall X0.(v4_scmyciel X0)\Rightarrow(\forall X1.\forall X2.((X1 \in k3_tarski X0)\wedge((X2 \in k3_tarski X0)\wedge(k2_tarski X1 X2 \in k12_scmyciel X0)))\Rightarrow(k2_tarski X1 X2 \in X0))$$