

t102_scmyciel (TMdQLvSB- TAVNR36bZakXnPGfpD4QwWbwaqZ)

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

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.(X1 \in k1_scmyciel (k12_scmyciel \\ X0)) \Leftrightarrow (\neg(\neg X1 \in k1_scmyciel X0) \wedge ((\forall X2.(m1_subset_1 X2 (k3_tarski \\ X0)) \Rightarrow (\forall X3.(m1_subset_1 X3 (k3_tarski X0)) \Rightarrow (\neg(X1 = k2_tarski \\ X2 (k4_tarski X3 (k3_tarski X0))) \wedge (k2_tarski X2 X3 \in k1_scmyciel \\ X0)))) \wedge (\forall X2.(m1_subset_1 X2 (k3_tarski X0)) \Rightarrow (\neg(X1 = k2_tarski \\ (k3_tarski X0) (k4_tarski X2 (k3_tarski X0))) \wedge (X2 \in k3_tarski X0))))))))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(k2_tarski X1 X2 \in k1_scmyciel X0) \Rightarrow ((X1 \neq X2) \wedge ((X1 \in k3_tarski X0) \wedge (X2 \in k3_tarski X0))) \quad (3)$$

Assume the following.

$$\forall X0.m1_subset_1 (k1_scmyciel X0) (k1_zfmisc_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0)) \Rightarrow ((X1 = k1_scmyciel X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow ((X2 \in X0) \wedge (k1_card_1 X2 = np_2)))) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (6)$$

Theorem 1

$$\forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.(k2_tarski X1 X2 \in k1_scmyciel X0) \Rightarrow (k2_tarski (k4_tarski X1 (k3_tarski X0)) X2 \in k12_scmyciel X0))$$