

t71_scmyciel

(TMQ4tZ6VRNQLu5YBerc3f8wh9UotMksCNoH)

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Let $v4_scmyciel : \iota \Rightarrow o$ be given. Let $v12_scmyciel : \iota \Rightarrow o$ be given. Let $k11_scmyciel : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v5_scmyciel : \iota \Rightarrow o$ be given. Let $k3_tarski : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v9_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_scmyciel : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow (\forall X1.\forall X2.((X1 \in k3_tarski \\ X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow ((k2_tarski X1 X2 \in X0) \vee ((v9_scmyciel \\ (k2_tarski X1 X2) X0) \wedge (m1_subset_1 (k2_tarski X1 X2) (k1_zfmisc_1 \\ (k3_tarski X0)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (k5_card_1 (k2_tarski X0 X1) = np_2) \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.(v4_scmyciel X0) \Rightarrow ((\forall X1.\forall X2.((X1 \in k3_tarski \\ X0) \wedge (X2 \in k3_tarski X0)) \Rightarrow ((X1 = X2) \vee (k2_tarski X1 X2 \in k1_scmyciel \\ X0))) \Rightarrow (v5_scmyciel X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(k2_tarski X1 X2 \in X0) \Rightarrow ((X1 = X2) \vee \\ (k2_tarski X1 X2 \in k1_scmyciel X0)) \end{aligned} \tag{4}$$

Assume the following.

$$\neg r1_xxreal_0 np_2 np_1 \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.v1_finset_1 (k2_tarski X0 X1) \tag{6}$$

Assume the following.

$$\forall X0.((v4_scmyciel X0)\wedge(v12_scmyciel X0))\Rightarrow(v7_ordinal1 (k11_scmyciel X0)) \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v4_scmyciel X0)\wedge(v12_scmyciel X0))\Rightarrow(\forall X1. \\ & (v7_ordinal1 X1)\Rightarrow((X1 = k11_scmyciel X0)\Leftrightarrow((\exists X2.((v1_finset_1 \\ & X2)\wedge((v9_scmyciel X2 X0)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k3_tarski \\ & X0))))))\wedge(k5_card_1 X2 = X1))\wedge(\forall X2.((v1_finset_1 X2)\wedge \\ & (v9_scmyciel X2 X0)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k3_tarski X0))))))\Rightarrow \\ & (r1_xreal_0 (k5_card_1 X2) X1)))) \end{aligned} \quad (8)$$

Theorem 1

$$\forall X0.((v4_scmyciel X0)\wedge(v12_scmyciel X0))\Rightarrow((k11_scmyciel X0 = np_1)\Rightarrow(v5_scmyciel X0))$$