t47_scmyciel (TMH88pgFpmELHSLHboCkKWSfaA4752d22JE)

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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 $k1\_scmyciel : \iota \Rightarrow \iota$ be given. Let $v5\_scmyciel : \iota \Rightarrow o$ be given. Let $k5\_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1\_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_tarski : \iota \Rightarrow \iota$ 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.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow ((\forall X1.\forall X2.((X1 \in k3\_tarski\ X0) \wedge (X2 \in k3\_tarski\ X0)) \Rightarrow (k2\_tarski\ X1\ X2 \in X0)) \Rightarrow (X0 = k5\_scmyciel\ (k3\_tarski\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.k1\_enumset1\ X0\ X0\ X1 = k2\_tarski\ X0\ X1 \tag{2}$$

Assume the following.

$$\forall X0.k2\_tarski\ X0\ X0 = k1\_tarski\ X0 \tag{3}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (\forall X1.(X1 \in k3\_tarski\ X0) \Leftrightarrow (k1\_tarski\ X1 \in X0)) \tag{4}$$

Assume the following.

$$\forall X0.m1\_subset\_1\ (k1\_scmyciel\ X0)\ (k1\_zfmisc\_1\ X0) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X0)) \Rightarrow ((X1 = k1\_scmyciel\ X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow ((X2 \in X0) \wedge (k1\_card\_1\ X2 = np\_\_2)))) \tag{6}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow ((v5\_scmyciel\ X0) \Leftrightarrow (X0 = k5\_scmyciel\ (k3\_tarski\ X0))) \tag{7}$$

Theorem 1

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow ((\forall X1.\forall X2.((X1 \in k3\_tarski\ X0) \wedge (X2 \in k3\_tarski\ X0)) \Rightarrow ((X1 = X2) \vee (k2\_tarski\ X1\ X2 \in k1\_scmyciel\ X0))) \Rightarrow (v5\_scmyciel\ X0))$$