# t78_scmyciel (TMVP9shCwTn9PD6Qo226aDtuTtZaheNTph1)

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Let $v4\_scmyciel : \iota \Rightarrow o$ be given. Let $v7\_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_scmyciel : \iota \Rightarrow \iota$ be given. Let $m1\_eqrel\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_tarski : \iota \Rightarrow \iota$ be given. Let $v10\_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5\_scmyciel : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_zfmisc\_1 : \iota \Rightarrow \iota$ be given. Let $v9\_scmyciel : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7\_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_scmyciel : \iota \Rightarrow \iota$ be given. Let $k1\_scmyciel : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (\forall X1.((v4\_scmyciel\ X1) \wedge ((v5\_scmyciel\ X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k6\_scmyciel\ X0))))) \Rightarrow ((v9\_scmyciel\ (k3\_tarski\ X1)\ X0) \wedge (m1\_subset\_1\ (k3\_tarski\ X1)\ (k1\_zfmisc\_1\ (k3\_tarski\ X0)))))) \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((X0 \in X1) \wedge (m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ X2))) \Rightarrow (m1\_subset\_1\ X0\ X2) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1\ X0\ (k1\_zfmisc\_1\ X1)) \Leftrightarrow (r1\_tarski\ X0\ X1) \tag{3}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (\forall X1.(r1\_tarski\ X1\ (k3\_tarski\ X0)) \Rightarrow (k3\_tarski\ (k7\_scmyciel\ X0\ X1) = X1)) \tag{4}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0) \Rightarrow (k3\_tarski\ X0 = k3\_tarski\ (k6\_subset\_1\ (k5\_scmyciel\ (k3\_tarski\ X0))\ (k1\_scmyciel\ X0))) \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.(v4\_scmyciel\ X0) \Rightarrow (v4\_scmyciel\ (k7\_scmyciel\ X0\ X1)) \tag{6}$$

Assume the following.

$$\forall X0.\forall X1.(m1\_eqrel\_1\ X1\ X0)\Rightarrow(m1\_subset\_1\ X1\ (k1\_zfmisc\_1\ (k1\_zfmisc\_1\ X0))) \tag{7}$$

Assume the following.

$$\forall X0.\forall X1.(v4\_scmyciel\ X0)\Rightarrow(m1\_subset\_1\ (k7\_scmyciel\ X0\ X1)\ (k1\_zfmisc\_1\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0)\Rightarrow(v4\_scmyciel\ (k6\_scmyciel\ X0)) \tag{9}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0)\Rightarrow(\forall X1.(m1\_eqrel\_1\ X1\ (k3\_tarski\ X0))\Rightarrow((v10\_scmyciel\ X1\ X0)\Leftrightarrow(\forall X2.(X2\in X1)\Rightarrow((v9\_scmyciel\ X2\ X0)\wedge(m1\_subset\_1\ X2\ (k1\_zfmisc\_1\ (k3\_tarski\ X0))))))) \tag{10}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0)\Rightarrow(\forall X1.(m1\_eqrel\_1\ X1\ (k3\_tarski\ X0))\Rightarrow((v7\_scmyciel\ X1\ X0)\Leftrightarrow(\forall X2.(X2\in X1)\Rightarrow((v4\_scmyciel\ (k7\_scmyciel\ X0\ X2))\wedge((v5\_scmyciel\ (k7\_scmyciel\ X0\ X2))\wedge(m1\_subset\_1\ (k7\_scmyciel\ X0\ X2)\ (k1\_zfmisc\_1\ X0))))))) \tag{11}$$

Assume the following.

$$\forall X0.(v4\_scmyciel\ X0)\Rightarrow(k6\_scmyciel\ X0 = k6\_subset\_1\ (k5\_scmyciel\ (k3\_tarski\ X0))\ (k1\_scmyciel\ X0)) \tag{12}$$

**Theorem 1**

$$\forall X0.(v4\_scmyciel\ X0)\Rightarrow(\forall X1.((v7\_scmyciel\ X1\ (k6\_scmyciel\ X0))\wedge(m1\_eqrel\_1\ X1\ (k3\_tarski\ (k6\_scmyciel\ X0))))\Rightarrow((v10\_scmyciel\ X1\ X0)\wedge(m1\_eqrel\_1\ X1\ (k3\_tarski\ X0))))$$