

# t66\_scmyciel (TMMWDiixTuVJKncvHzFQcSy- TYHcFmmwxqo8)

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Let  $v4\_scmyciel : \iota \Rightarrow o$  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  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_tarSKI : \iota \Rightarrow \iota$  be given. Let  $k7\_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k5\_scmyciel : \iota \Rightarrow \iota$  be given. Let  $v1\_classes1 : \iota \Rightarrow o$  be given. Let  $v3\_scmyciel : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $np\_1 : \iota$  be given. Assume the following.

$$\forall X0. \forall X1. \forall X2. \neg (X0 \in X1) \wedge ((m1\_subset\_1 X1 (k1\_zfmisc\_1 X2)) \wedge (v1\_xboole\_0 X2)) \quad (1)$$

Assume the following.

$$\forall X0. ((v4\_scmyciel X0) \wedge (v5\_scmyciel X0)) \Rightarrow (\forall X1. \forall X2. ((X1 \in k3\_tarSKI X0) \wedge (X2 \in k3\_tarSKI X0)) \Rightarrow (k2\_tarSKI X1 X2 \in X0)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X2))) \Rightarrow (m1\_subset\_1 X0 X2) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarSKI X0 X1) \quad (4)$$

Assume the following.

$$\forall X0. (v4\_scmyciel X0) \Rightarrow ((\forall X1. \forall X2. ((X1 \in k3\_tarSKI X0) \wedge (X2 \in k3\_tarSKI X0)) \Rightarrow (k2\_tarSKI X1 X2 \in X0)) \Rightarrow (X0 = k5\_scmyciel (k3\_tarSKI X0))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 X1) \Rightarrow ((v1\_xboole\_0 X1) \vee (X0 \in X1)) \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v4\_scmyciel X0) \Rightarrow (\forall X1.\forall X2.\forall X3. \\ & ((X2 \in X1) \wedge ((X3 \in X1) \wedge (k2\_tarski X2 X3 \in X0))) \Rightarrow (k2\_tarski X2 X3 \in k7\_scmyciel \\ & X0 X1)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v4\_scmyciel X0) \Rightarrow (\forall X1.\forall X2.(X2 \in k3\_tarski \\ & (k7\_scmyciel X0 X1)) \Rightarrow (X2 \in X1)) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.v5\_scmyciel (k5\_scmyciel X0) \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(v4\_scmyciel X0) \Rightarrow (v4\_scmyciel (k7\_scmyciel \\ & X0 X1)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(v4\_scmyciel X0) \Rightarrow (m1\_subset\_1 (k7\_scmyciel \\ & X0 X1) (k1\_zfmisc\_1 X0)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v4\_scmyciel X0) \Rightarrow ((\neg v1\_xboole\_0 X0) \wedge ((v1\_classes1 \\ & X0) \wedge (v3\_scmyciel X0 np\_1))) \end{aligned} \quad (12)$$

**Theorem 1**

$$\begin{aligned} & \forall X0.(v4\_scmyciel X0) \Rightarrow (\forall X1.((v4\_scmyciel X1) \wedge ( \\ & (v5\_scmyciel X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) \Rightarrow (\forall X2. \\ & (r1\_tarski X2 (k3\_tarski X1)) \Rightarrow ((v4\_scmyciel (k7\_scmyciel X0 X2)) \wedge \\ & ((v5\_scmyciel (k7\_scmyciel X0 X2)) \wedge (m1\_subset\_1 (k7\_scmyciel \\ & X0 X2) (k1\_zfmisc\_1 X0)))))) \end{aligned}$$