

l67\_scmyciel  
(TMVo7yAGjDqKcc34p9Dx5HhJ1BZ9JBct25j)

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Let  $v4\_scmyciel : \iota \Rightarrow o$  be given. Let  $k2\_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k7\_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k3\_tarSKI : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc.1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarSKI : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_xboole.0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. k3\_tarSKI (k1\_zfmisc.1 X0) = X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1\_tarSKI (k2\_tarSKI X0 X1) X2) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k3\_xboole.0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_zfmisc.1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1\_tarSKI X2 X0)) \quad (4)$$

Assume the following.

$$\forall X0. (v4\_scmyciel X0) \Rightarrow (\forall X1. k7\_scmyciel X0 X1 = k3\_xboole.0 X0 (k1\_zfmisc.1 X1)) \quad (5)$$

**Theorem 1**

$$\forall X0. (v4\_scmyciel X0) \Rightarrow (\forall X1. \forall X2. \forall X3. ((X2 \in X1) \wedge ((X3 \in X1) \wedge (k2\_tarSKI X2 X3 \in X0))) \Rightarrow (k2\_tarSKI X2 X3 \in k7\_scmyciel X0 X1))$$