

l64\_scmyciel  
(TMJJ7Yz7h79AkjqmP378Nyt3CVm76W1q1hC)

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Let  $v4\_scmyciel : \iota \Rightarrow o$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $k7\_scmyciel : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k3\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. \forall X1. (r1\_tarski (k1\_tarski X0) X1) \Leftrightarrow (X0 \in X1) \quad (1)$$

Assume the following.

$$\forall X0. (v4\_scmyciel X0) \Rightarrow (\forall X1. (X1 \in k3\_tarski X0) \Leftrightarrow (k1\_tarski X1 \in X0)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v4\_scmyciel X0) \Rightarrow (v4\_scmyciel (k7\_scmyciel X0 X1)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (X2 = k3\_xboole\_0 X0 X1) \Leftrightarrow (\forall X3. (X3 \in X2) \Leftrightarrow ((X3 \in X0) \wedge (X3 \in X1))) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (X1 = k1\_zfmisc\_1 X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow (r1\_tarski X2 X0)) \quad (5)$$

Assume the following.

$$\forall X0. (v4\_scmyciel X0) \Rightarrow (\forall X1. k7\_scmyciel X0 X1 = k3\_xboole\_0 X0 (k1\_zfmisc\_1 X1)) \quad (6)$$

**Theorem 1**

$$\forall X0. (v4\_scmyciel X0) \Rightarrow (\forall X1. \forall X2. ((X2 \in X1) \wedge (X2 \in k3\_tarski X0)) \Rightarrow (X2 \in k3\_tarski (k7\_scmyciel X0 X1)))$$