

t5\_scmfsa\_1 (TM-  
LXmqKMm4jTeRRNHwMLc27FEmKoiJ8TeT9)

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Let  $k5\_numbers : \iota$  be given. Let  $k1\_scmfsa\_1 : \iota$  be given. Let  $k2\_xboole\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_ami\_2 : \iota$  be given. Let  $k1\_scmfsa\_i : \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k2\_scm\_inst : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. (X2 = k2\_xboole\_0 X0 X1) \Leftrightarrow (\forall X3. \\ (X3 \in X2) \Leftrightarrow ((X3 \in X0) \vee (X3 \in X1))) \end{aligned} \quad (1)$$

Assume the following.

$$k1\_scmfsa\_1 = k2\_xboole\_0 k1\_ami\_2 k1\_scmfsa\_i \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. (X1 = k1\_tarski X0) \Leftrightarrow (\forall X2. (X2 \in X1) \Leftrightarrow \\ (X2 = X0)) \end{aligned} \quad (3)$$

Assume the following.

$$k1\_ami\_2 = k2\_xboole\_0 (k1\_tarski k5\_numbers) k2\_scm\_inst \quad (4)$$

**Theorem 1**  $k5\_numbers \in k1\_scmfsa\_1$ .