

# t15\_scmfsa8a (TMb- SdD9gMUbjqHiYCU6FckiQAGPfyZYtnEG)

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Let  $m2\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k5\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmfsa8a : \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k9\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k16\_funcop\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k6\_numbers : \iota$  be given. Let  $k11\_scmfsa\_2 : \iota \Rightarrow \iota$  be given. Let  $k1\_tarski : \iota \Rightarrow \iota$  be given. Let  $k1\_funct\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k2\_compos\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_scmfsa\_2 : \iota$  be given. Let  $k10\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0.(m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow & ((k9\_xtuple\_0 \\ (k16\_funcop\_1 k6\_numbers (k11\_scmfsa\_2 X0)) = k1\_tarski k6\_numbers) \wedge & \\ ((k6\_numbers \in k9\_xtuple\_0 (k16\_funcop\_1 k6\_numbers (k11\_scmfsa\_2 & \\ X0))) \wedge ((k1\_funct\_1 (k16\_funcop\_1 k6\_numbers (k11\_scmfsa\_2 X0)) & \\ k6\_numbers = k11\_scmfsa\_2 X0) \wedge ((k5\_card\_1 (k16\_funcop\_1 k6\_numbers & \\ (k11\_scmfsa\_2 X0)) = np\_1) \wedge (\neg k2\_compos\_1 k1\_scmfsa\_2 \in k10\_xtuple\_0 & \\ (k16\_funcop\_1 k6\_numbers (k11\_scmfsa\_2 X0)))))) & \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow & (k1\_scmfsa8a \\ X0 = k16\_funcop\_1 k6\_numbers (k11\_scmfsa\_2 X0)) & \end{aligned} \quad (2)$$

## Theorem 1

$$\begin{aligned} \forall X0.(m2\_subset\_1 X0 k1\_numbers k5\_numbers) \Rightarrow & (k5\_card\_1 \\ (k1\_scmfsa8a X0) = np\_1) & \end{aligned}$$