

t7\_sgraph1  
(TMGW4xjUQh9UAbL2TyvEeKoPbWbCT55wQbC)

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Let  $k2\_sgraph1 : \iota \Rightarrow \iota$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k5\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $np\_2 : \iota$  be given. Assume the following.

$$\begin{aligned} \forall X0. k2\_sgraph1 X0 = ReplSep (toset (\lambda X1 : \iota. (v1\_finset\_1 \\ X1) \wedge (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)))) (\lambda X1 : \iota. k5\_card\_1 \\ X1 = np\_2) (\lambda X1 : \iota. X1) \end{aligned} \quad (1)$$

**Theorem 1**

$$\begin{aligned} \forall X0. \forall X1. (X1 \in k2\_sgraph1 X0) \Leftrightarrow (\exists X2. ((v1\_finset\_1 \\ X2) \wedge (m1\_subset\_1 X2 (k1\_zfmisc\_1 X0))) \wedge ((X1 = X2) \wedge (k5\_card\_1 \\ X2 = np\_2))) \end{aligned}$$