

t18\_card\_fil  
 (TMXy37jn4BfFBP9GGFbbpRPvAdPuKRBS3HH)

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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  $k4\_card\_fil : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k6\_subset\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0 : \iota \Rightarrow o. \forall X1. \forall X2. (X2 \in ReplSep (toset (\lambda X3 : \iota. m1\_subset\_1 X3 X1)) (\lambda X3 : \iota. X0 X3)) (\lambda X3 : \iota. X3)) \Rightarrow (X0 X2) \quad (1)$$

Assume the following.

$$\forall X0. (\neg v1\_finset\_1 X0) \Rightarrow (k4\_card\_fil X0 = ReplSep (toset (\lambda X1 : \iota. m1\_subset\_1 X1 (k1\_zfmisc\_1 X0))) (\lambda X1 : \iota. k1\_card\_1 (k6\_subset\_1 X0 X1) \in k1\_card\_1 X0) (\lambda X1 : \iota. X1))) \quad (2)$$

**Theorem 1**

$$\forall X0. (\neg v1\_finset\_1 X0) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow ((X1 \in k4\_card\_fil X0) \Leftrightarrow (k1\_card\_1 (k6\_subset\_1 X0 X1) \in k1\_card\_1 X0)))$$