

t15\_card\_5

(TMXo1AJMP4YQgFAfdY8inU5CKBPYA3QY8Cq)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k3\_card\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (\neg(\neg v1\_finset\_1 X0) \wedge (\forall X1.(v3\_ordinal1 X1) \Rightarrow (X0 \neq k3\_card\_1 X1))) \quad (1)$$

**Theorem 1**

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow (\exists X1.(v3\_ordinal1 X1) \wedge (X0 = k3\_card\_1 X1))$$