

t48\_card\_1 (TMMgdStCg-  
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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \neg(v1\_finset\_1 X0) \wedge (\forall X1. (v7\_ordinal1 X1) \Rightarrow (\neg r2\_wellord2 X0 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r2\_wellord2 X0 X1) \Rightarrow (r2\_wellord2 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_card\_1 X1) \Rightarrow ((X1 = k1\_card\_1 X0) \Leftrightarrow (r2\_wellord2 X0 X1)) \quad (3)$$

**Theorem 1**

$$\forall X0. ((v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow (\exists X1. (v7\_ordinal1 X1) \wedge (X0 = k1\_card\_1 X1))$$