

## t29\_card\_fil

(TMNV1TGwvm9FvYaXADX6sb1DUk3MHJcmJMi)

October 27, 2020

Let  $v6\_card\_fil : \iota \Rightarrow o$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_5 : \iota \Rightarrow o$  be given. Let  $k2\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $v5\_card\_fil : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((v1\_card\_5 k4\_ordinal1) \wedge (v1\_card\_5 (k2\_card\_1 X0))) \quad (1)$$

Assume the following.

$$v5\_card\_fil k4\_ordinal1 \quad (2)$$

Assume the following.

$$\neg v1\_finset\_1 k4\_ordinal1 \quad (3)$$

Assume the following.

$$v1\_card\_1 k4\_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((v6\_card\_fil X0) \Leftrightarrow ((v1\_card\_5 X0) \wedge (v5\_card\_fil X0))) \quad (5)$$

**Theorem 1**  $v6\_card\_fil k4\_ordinal1$ .