

# 176\_card\_2 (TMdLpaNWte- QPeYd3U9qMhy4CJq6cCxXTDgc)

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Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $k1\_nat\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $np\_1 : \iota$  be given. Let  $k4\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_ordinal1 : \iota \Rightarrow \iota$  be given. Let  $k9\_setfam\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k4\_card\_1 X0 = k1\_nat\_1 X0 np\_1) \quad (1)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (k4\_classes1 (k1\_ordinal1 X0) = k9\_setfam\_1 (k4\_classes1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.k9\_setfam\_1 X0 = k1\_zfmisc\_1 X0 \quad (3)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (k4\_card\_1 X0 = k1\_ordinal1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (v1\_finset\_1 (k1\_zfmisc\_1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow (v3\_ordinal1 X0) \quad (6)$$

## **Theorem 1**

$$\forall X0.(v7\_ordinal1 X0) \Rightarrow ((v1\_finset\_1 (k4\_classes1 X0)) \Rightarrow (v1\_finset\_1 (k4\_classes1 (k1\_nat\_1 X0 np\_1))))$$