

# t30\_card\_5 (TMYqgRcNFCGEtsweJMmksr- CwY2yRNpMNz99)

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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  $k4\_ordinal1 : \iota$  be given. Let  $k2\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_5 : \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow (k1\_card\_5 (k2\_card\_1 X0) = k2\_card\_1 X0) \quad (1)$$

Assume the following.

$$k1\_card\_5 k4\_ordinal1 = k4\_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((\neg v1\_finset\_1 (k2\_card\_1 X0)) \wedge (v1\_card\_1 (k2\_card\_1 X0))) \quad (3)$$

Assume the following.

$$\neg v1\_finset\_1 k4\_ordinal1 \quad (4)$$

Assume the following.

$$v1\_card\_1 k4\_ordinal1 \quad (5)$$

Assume the following.

$$\forall X0. v1\_card\_1 (k2\_card\_1 X0) \quad (6)$$

Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((v1\_card\_5 X0) \Leftrightarrow (k1\_card\_5 X0 = X0)) \quad (7)$$

## Theorem 1

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