

t38\_card\_lar  
(TMc6VcAaPrEeX11sWqg41VFzeDipqs5Y35J)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $v4\_card\_3 : \iota \Rightarrow o$  be given. Let  $v6\_card\_fil : \iota \Rightarrow o$  be given. Let  $v1\_xboole\_0 : \iota \Rightarrow o$  be given. Let  $k4\_classes1 : \iota \Rightarrow \iota$  be given. Let  $v1\_classes2 : \iota \Rightarrow o$  be given. Let  $v2\_classes1 : \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v1\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge ((v1\_card\_1 X0) \wedge (\neg v4\_card\_3 X0))) \Rightarrow ((v6\_card\_fil X0) \Rightarrow (v2\_classes1 (k4\_classes1 X0))) \quad (1)$$

Assume the following.

$$\forall X0.(v3\_ordinal1 X0) \Rightarrow (v1\_ordinal1 (k4\_classes1 X0)) \quad (2)$$

Assume the following.

$$\forall X0.((v3\_ordinal1 X0) \wedge (\neg v1\_xboole\_0 X0)) \Rightarrow (\neg v1\_xboole\_0 (k4\_classes1 X0)) \quad (3)$$

Assume the following.

$$\forall X0.((v1\_ordinal1 X0) \wedge (v2\_classes1 X0)) \Rightarrow (v1\_classes2 X0) \quad (4)$$

Assume the following.

$$\forall X0.(\neg v1\_finset\_1 X0) \Rightarrow (\neg v1\_xboole\_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (v3\_ordinal1 X0) \quad (6)$$

**Theorem 1**

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge ((v1\_card\_1 X0) \wedge (\neg v4\_card\_3 X0))) \Rightarrow ((v6\_card\_fil X0) \Rightarrow ((\neg v1\_xboole\_0 (k4\_classes1 X0)) \wedge (v1\_classes2 (k4\_classes1 X0))))$$