

t20\_card\_lar (TMLX-  
HoTy87ZEf1xWBSedwZ3xGsA7mGeJqW9)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $v1\_card\_lar : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_card\_5 : \iota \Rightarrow \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k3\_ordinal2 : \iota \Rightarrow \iota$  be given. Let  $k3\_tarski : \iota \Rightarrow \iota$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Let  $v4\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. (m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (v1\_card\_1 X1) \Rightarrow (((r1\_tarski X0 X1) \wedge (k1\_card\_1 X0 \in k1\_card\_5 X1)) \Rightarrow ((k3\_ordinal2 X0 \in X1) \wedge (k3\_tarski X0 \in X1))) \quad (2)$$

Assume the following.

$$\forall X0. (v3\_ordinal1 X0) \Rightarrow (\forall X1. (v3\_ordinal1 X1) \Rightarrow ((r1\_ordinal1 X0 X1) \vee (X1 \in X0))) \quad (3)$$

Assume the following.

$$\forall X0. (v1\_card\_1 X0) \Rightarrow (v1\_card\_1 (k1\_card\_5 X0)) \quad (4)$$

Assume the following.

$$\forall X0. v1\_card\_1 (k1\_card\_1 X0) \quad (5)$$

Assume the following.

$$\forall X0. ((v3\_ordinal1 X0) \wedge ((v4\_ordinal1 X0) \wedge (\neg v1\_finset\_1 X0))) \Rightarrow (\forall X1. (m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow ((v1\_card\_lar X1 X0) \Leftrightarrow (k3\_ordinal2 X1 = X0))) \quad (6)$$

Assume the following.

$$\forall X0. ((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((v4\_ordinal1 X0) \wedge (v1\_card\_1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (v3\_ordinal1 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (\neg X1 \in X0) \quad (9)$$

**Theorem 1**

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow ((v1\_card\_lar X1 X0) \Rightarrow (r1\_ordinal1 (k1\_card\_5 X0) (k1\_card\_1 X1))))$$