

t28\_card\_5 (TMM-  
MQdTS1ct5MuXdve21dq6u7AuUXqz4Lo5)

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Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Let  $k1\_card\_5 : \iota \Rightarrow \iota$  be given. Let  $v2\_card\_1 : \iota \Rightarrow o$  be given. Let  $k2\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v3\_ordinal1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (\forall X1.(v1\_card\_1 X1) \Rightarrow ((X0 \in k2\_card\_1 X1) \Leftrightarrow (r1\_ordinal1 X0 X1))) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(m1\_subset\_1 X0 (k1\_zfmisc\_1 X1)) \Leftrightarrow (r1\_tarski X0 X1) \quad (2)$$

Assume the following.

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow (k1\_card\_5 (k2\_card\_1 X0) = k2\_card\_1 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v3\_ordinal1 X0) \wedge (v3\_ordinal1 X1)) \Rightarrow (r1\_ordinal1 X0 X1) \Leftrightarrow (r1\_tarski X0 X1) \quad (4)$$

Assume the following.

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((\neg v1\_finset\_1 (k1\_card\_5 X0)) \wedge (v1\_card\_1 (k1\_card\_5 X0))) \quad (5)$$

Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (v1\_card\_1 (k1\_card\_5 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow ((v2\_card\_1 X0) \Leftrightarrow (\forall X1.(v1\_card\_1 X1) \Rightarrow (X0 \neq k2\_card\_1 X1))) \quad (7)$$

Assume the following.

$$\forall X0.(v1\_finset\_1 X0) \Rightarrow (\forall X1.(m1\_subset\_1 X1 (k1\_zfmisc\_1 X0)) \Rightarrow (v1\_finset\_1 X1)) \quad (8)$$

Assume the following.

$$\forall X0.(v1\_card\_1 X0) \Rightarrow (v3\_ordinal1 X0) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (\neg X1 \in X0) \quad (10)$$

**Theorem 1**

$$\forall X0.((\neg v1\_finset\_1 X0) \wedge (v1\_card\_1 X0)) \Rightarrow ((k1\_card\_5 X0 \in X0) \Rightarrow (v2\_card\_1 X0))$$