

t63\_card\_1 (TMUaRVhjMuGrWC-  
FUVg3kPE2ejBLvgKqWZpt)

October 27, 2020

Let  $v1\_finset\_1 : \iota \Rightarrow o$  be given. Let  $k1\_wellord2 : \iota \Rightarrow \iota$  be given. Let  $v1\_relat\_1 : \iota \Rightarrow o$  be given. Let  $k1\_relat\_1 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $r1\_tarski : \iota \Rightarrow \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0.((v1\_relat\_1 X0) \wedge (v1\_finset\_1 X0)) \Rightarrow (v1\_finset\_1 (k1\_relat\_1 X0)) \quad (1)$$

Assume the following.

$$\forall X0.v1\_relat\_1 (k1\_wellord2 X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(v1\_relat\_1 X1) \Rightarrow ((X1 = k1\_wellord2 X0) \Leftrightarrow ((k1\_relat\_1 X1 = X0) \wedge (\forall X2.\forall X3.((X2 \in X0) \wedge (X3 \in X0)) \Rightarrow ((k4\_tarski X2 X3 \in X1) \Leftrightarrow (r1\_tarski X2 X3)))))) \quad (3)$$

**Theorem 1**  $\forall X0.(v1\_finset\_1 (k1\_wellord2 X0)) \Rightarrow (v1\_finset\_1 X0)$ .