

t42\_card\_1  
(TMG142mK3vpZYgxFzNs7yNvbi68zGahzxA7)

October 27, 2020

Let  $v7\_ordinal1 : \iota \Rightarrow o$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$\forall X0. \forall X1. r2\_wellord2 X0 X0 \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (v1\_card\_1 X1) \Rightarrow ((X1 = k1\_card\_1 X0) \Leftrightarrow (r2\_wellord2 X0 X1)) \tag{2}$$

Assume the following.

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (v1\_card\_1 X0) \tag{3}$$

**Theorem 1**

$$\forall X0. (v7\_ordinal1 X0) \Rightarrow (\forall X1. (v7\_ordinal1 X1) \Rightarrow ((k1\_card\_1 X0 \in k1\_card\_1 X1) \Leftrightarrow (X0 \in X1)))$$