

t6\_card\_4  
(TMNexiA2ifggyJZz7dvz71kDymcUJuDv4YT)

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Let  $k2\_card\_2 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k4\_ordinal1 : \iota$  be given. Let  $r2\_wellord2 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k8\_mcart\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $k1\_numbers : \iota$  be given. Let  $k5\_numbers : \iota$  be given. Let  $k1\_card\_1 : \iota \Rightarrow \iota$  be given. Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_zfmisc\_1 : \iota \Rightarrow \iota$  be given. Let  $k2\_zfmisc\_1 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Let  $v1\_card\_1 : \iota \Rightarrow o$  be given. Assume the following.

$$(r2\_wellord2 (k8\_mcart\_1 k1\_numbers k1\_numbers k5\_numbers k5\_numbers) k5\_numbers) \wedge (k1\_card\_1 k5\_numbers = k1\_card\_1 (k8\_mcart\_1 k1\_numbers k1\_numbers k5\_numbers k5\_numbers)) \quad (1)$$

Assume the following.

$$k1\_card\_1 k4\_ordinal1 = k4\_ordinal1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. \forall X3. ((m1\_subset\_1 X2 (k1\_zfmisc\_1 X0)) \wedge (m1\_subset\_1 X3 (k1\_zfmisc\_1 X1))) \Rightarrow (k8\_mcart\_1 X0 X1 X2 X3 = k2\_zfmisc\_1 X2 X3) \quad (3)$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \quad (4)$$

Assume the following.

$$v1\_card\_1 k4\_ordinal1 \quad (5)$$

Assume the following.

$$m1\_subset\_1 k5\_numbers (k1\_zfmisc\_1 k1\_numbers) \quad (6)$$

Assume the following.

$$\forall X0. (v1\_card\_1 X0) \Rightarrow (\forall X1. (v1\_card\_1 X1) \Rightarrow (k2\_card\_2 X0 X1 = k1\_card\_1 (k2\_zfmisc\_1 X0 X1))) \quad (7)$$

**Theorem 1**  $k2\_card\_2 k4\_ordinal1 k4\_ordinal1 = k4\_ordinal1$ .