

t24_card_fil
(TMaQJ4rfc6RWrt1HX6bS6FAQ4aaHuqp4b6A)

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Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_card_1 : \iota \Rightarrow \iota$ be given. Let $k3_card_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (\forall X1.(v1_card_1 X1) \Rightarrow ((X0 \in X1) \Leftrightarrow (r1_ordinal1 (k2_card_1 X0) X1))) \quad (1)$$

Assume the following.

$$\forall X0.k3_card_2 np_2 (k1_card_1 X0) = k1_card_1 (k1_zfmisc_1 X0) \quad (2)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (X0 \in k3_card_2 np_2 X0) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.r2_wellord2 X0 X0 \quad (4)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \quad (6)$$

Theorem 1

$$\forall X0.(v1_card_1 X0) \Rightarrow (r1_ordinal1 (k2_card_1 X0) (k3_card_2 np_2 X0))$$