

t26_card_fil

(TMF9848cMkK4GHRXH4ovQfRByTA8Rj8VH9f)

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Let $v5_card_fil : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ 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. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v3_ordinal1 X0) \Rightarrow ((v1_finset_1 X0) \Leftrightarrow (X0 \in k4_ordinal1)) \quad (1)$$

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.

$$\forall X0.\forall X1.r2_wellord2 X0 X0 \quad (3)$$

Assume the following.

$$\neg v1_finset_1 k4_ordinal1 \quad (4)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow ((v1_finset_1 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (5)$$

Assume the following.

$$v1_card_1 k4_ordinal1 \quad (6)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (v1_finset_1 (k1_zfmisc_1 X0)) \quad (7)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \quad (9)$$

Assume the following.

$$\forall X0.((\neg v1_finset_1 X0) \wedge (v1_card_1 X0)) \Rightarrow ((v5_card_fil X0) \Leftrightarrow (\forall X1.(v1_card_1 X1) \Rightarrow ((X1 \in X0) \Rightarrow (k3_card_2 np_2 X1 \in X0)))) \quad (10)$$

Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (v3_ordinal1 X0) \quad (11)$$

Theorem 1 $v5_card_fil$ $k4_ordinal1$.