

t49_card_2

(TMJ5adPodooATQ8x4ChWLBM7S6WYen7bgms)

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Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_card_1 X0) \Rightarrow (\forall X1.(v1_card_1 X1) \Rightarrow ((v1_finset_1 X0) \Rightarrow (((\neg r1_ordinal1 X1 X0) \wedge (\neg X1 \in X0)) \vee (v1_finset_1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.(\neg v1_finset_1 X0) \Rightarrow ((\neg v1_finset_1 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (2)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow ((v1_finset_1 (k1_card_1 X0)) \wedge (v1_card_1 (k1_card_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0.v1_card_1 (k1_card_1 X0) \quad (4)$$

Theorem 1

$$\forall X0.\forall X1.(v1_finset_1 X1) \Rightarrow (((\neg r1_ordinal1 (k1_card_1 X0) (k1_card_1 X1)) \wedge (\neg k1_card_1 X0 \in k1_card_1 X1)) \vee (v1_finset_1 X0))$$