

t80_card_2

(TMY8pwxTPn4b65jUa3w3mPovcLFVaiJBBdu)

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Let $v1_finset.1 : \iota \Rightarrow o$ be given. Let $v1_card.1 : \iota \Rightarrow o$ be given. Let $k1_card.2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_card.1 : \iota \Rightarrow \iota$ be given. Let $k10_ordinal2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow ((v1_finset.1 X0) \wedge (v1_finset.1 (k1_card.1 X0))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow ((v3_ordinal1 (k10_ordinal2 X0 X1)) \wedge (v7_ordinal1 (k10_ordinal2 X0 X1))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_card.1 X0) \Rightarrow (\forall X1.(v1_card.1 X1) \Rightarrow (k1_card.2 X0 X1 = k1_card.1 (k10_ordinal2 X0 X1))) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Leftrightarrow (X0 \in k4_ordinal1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_card.1 X0) \wedge (v1_card.1 X1)) \Rightarrow (k1_card.2 X0 X1 = k1_card.2 X1 X0) \quad (6)$$

Assume the following.

$$\forall X0.(v1_card.1 X0) \Rightarrow (v3_ordinal1 X0) \quad (7)$$

Theorem 1

$$\forall X0.((v1_finset.1 X0) \wedge (v1_card.1 X0)) \Rightarrow (\forall X1.((v1_finset.1 X1) \wedge (v1_card.1 X1)) \Rightarrow (v1_finset.1 (k1_card.2 X0 X1)))$$