

t57_card.2 (TMGjxvH-
PGZyQ7Ve9djgxNkxmTpkfU9HYK32)

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Let $k5_card.1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v1_finset.1 : \iota \Rightarrow o$ be given. Let $r1_xboole.0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xboole.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_nat.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_card.1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v2_xxreal.0 : \iota \Rightarrow o$ be given. Let $m2_subset.1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_xcmplx.0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_finset.1 X0) \Rightarrow (\forall X1.(v1_finset.1 X1) \Rightarrow ((r1_xboole.0 X0 X1) \Rightarrow (k5_card.1 (k2_xboole.0 X0 X1) = k2_nat.1 (k5_card.1 X0) (k5_card.1 X1)))) \quad (1)$$

Assume the following.

$$\forall X0.k1_card.1 (k1_tarski X0) = np_1 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_xboole.0 (k1_tarski X0) (k1_tarski X1) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (r1_xboole.0 (k1_tarski X0) (k1_tarski X1)) \quad (4)$$

Assume the following.

$$((v2_xxreal.0 np_1) \wedge (m2_subset.1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset.1 np_1 k5_numbers) \wedge (m1_subset.1 np_1 k1_numbers)) \quad (5)$$

Assume the following.

$$k2_xcmplx.0 np_1 np_1 = np_2 \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 X0 k5_numbers) \wedge (v7_ordinal1 X1)) \Rightarrow (k2_nat_1 X0 X1 = k2_xcmplx_0 X0 X1) \quad (9)$$

Assume the following.

$$\forall X0.v1_finset_1 (k1_tarski X0) \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \quad (11)$$

Theorem 1 $\forall X0.\forall X1.(X0 \neq X1) \Rightarrow (k5_card_1 (k2_tarski X0 X1) = np_2)$.