

t8_card_4 (TM-
REMvxf5zDRdwD8Vgbs7t1uskF94MhxGXd)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4_ordinal1 : \iota$ be given. Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (\forall X1. k4_finseq_2 X0 X1 = k1_funct_2 (k2_finseq_1 X0) X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Leftrightarrow (k1_card_1 X0 = k1_card_1 X1) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 (k1_funct_2 (k1_tarski X1) X0)) \wedge (k1_card_1 X0 = k1_card_1 (k1_funct_2 (k1_tarski X1) X0)) \quad (3)$$

Assume the following.

$$(k2_finseq_1 np_1 = k1_tarski np_1) \wedge (k2_finseq_1 np_2 = k2_tarski np_1 np_2) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 X0 X1) \Rightarrow (r2_wellord2 X1 X0) \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{7}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1) \Rightarrow (v7_ordinal1 X0) \tag{8}$$

Theorem 1

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow ((r2_wellord2 (k4_finseq_2 np_1 X0) X0) \wedge (k1_card_1 (k4_finseq_2 np_1 X0) = k1_card_1 X0))$$