

t44_card_1
(TMRyrQcxbsskZ4wnKtNBr3fPGrwP8ctFvDC)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k2_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_ordinal1 : \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $r1_ordinal1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $k2_xboole_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. X0 \in k1_ordinal1 X0 \tag{1}$$

Assume the following.

$$\forall X0. (v3_ordinal1 X0) \Rightarrow (\forall X1. (v3_ordinal1 X1) \Rightarrow ((X0 \in X1) \Leftrightarrow (r1_ordinal1 (k1_ordinal1 X0) X1))) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. r2_wellord2 X0 X0 \tag{3}$$

Assume the following.

$$\forall X0. ((v3_ordinal1 X0) \wedge (v7_ordinal1 X0)) \Rightarrow (v7_ordinal1 (k1_ordinal1 X0)) \tag{4}$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1 X1) \Rightarrow ((X1 = k2_card_1 X0) \Leftrightarrow ((k1_card_1 X0 \in X1) \wedge (\forall X2. (v1_card_1 X2) \Rightarrow ((k1_card_1 X0 \in X2) \Rightarrow (r1_ordinal1 X1 X2)))))) \tag{5}$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1 X1) \Rightarrow ((X1 = k1_card_1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \tag{6}$$

Assume the following.

$$\forall X0. k1_ordinal1 X0 = k2_xboole_0 X0 (k1_tarski X0) \tag{7}$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(v1_card_1\ X0) \quad (8)$$

Assume the following.

$$\forall X0.(v1_card_1\ X0)\Rightarrow(v3_ordinal1\ X0) \quad (9)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(k2_card_1\ (k1_card_1\ X0) = k1_card_1\ (k1_ordinal1\ X0))$$