

t64_card_1 (TMVS- fUweNJ7Pe9irUmAqThNMxMaRskiiDyA)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_card.1 : \iota \Rightarrow \iota$ be given. Let $k7_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $k9_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $k2_funcop.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_card.1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((v1_relat.1 X0) \wedge (v1_funct.1 X0)) \Rightarrow (k1_card.1 X0 = k1_card.1 (k9_xtuple.0 X0)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (k9_xtuple.0 (k2_funcop.1 X0 X1) = X0) \wedge (r1_tarski (k10_xtuple.0 (k2_funcop.1 X0 X1)) (k1_tarski X1)) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. r2_wellord2 X0 X0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop.1 X0 X1 = k2_funcop.1 X0 X1 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v1_relat.1 (k2_funcop.1 X0 X1)) \wedge (v1_funct.1 (k2_funcop.1 X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (v1_card.1 X1) \Rightarrow ((X1 = k1_card.1 X0) \Leftrightarrow (r2_wellord2 X0 X1)) \quad (6)$$

Assume the following.

$$\forall X0. (v7_ordinal1 X0) \Rightarrow (v1_card.1 X0) \quad (7)$$

Theorem 1

$$\forall X0. \forall X1. (v7_ordinal1 X1) \Rightarrow (k1_card.1 (k7_funcop.1 X1 X0) = X1)$$