

t38_card_3

(TMGvUFgk6xmeemUUERMtVtN99c9dCnPmu8X)

October 27, 2020

Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $k7_card_3 : \iota \Rightarrow \iota$ be given. Let $k16_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k4_card_3 : \iota \Rightarrow \iota$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_card_3 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.\forall X1.(r2_wellord2\ X0\ (k1_funct_2\ (k1_tarski\ X1)\ X0)) \wedge (k1_card_1\ X0 = k1_card_1\ (k1_funct_2\ (k1_tarski\ X1)\ X0)) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.k1_funct_2\ X0\ X1 = k4_card_3\ (k7_funcop_1\ X0\ X1) \quad (2)$$

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.

$$\forall X0.\forall X1.v1_relat_1\ (k2_zfmisc_1\ X0\ X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1\ X1) \Rightarrow (v1_card_3\ (k16_funcop_1\ X0\ X1)) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(v1_funct_1\ (k7_funcop_1\ X0\ X1)) \wedge ((v1_funct_2\ (k7_funcop_1\ X0\ X1)\ X0\ (k1_tarski\ X1)) \wedge (m1_subset_1\ (k7_funcop_1\ X0\ X1)\ (k1_zfmisc_1\ (k2_zfmisc_1\ X0\ (k1_tarski\ X1)))))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.k16_funcop_1 X0 X1 = k7_funcop_1 (k1_tarSKI X0) X1 \quad (8)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge(v1_card_3 X0)))\Rightarrow (k7_card_3 X0 = k1_card_1 (k4_card_3 X0)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.k2_funcop_1 X0 X1 = k2_zfmisc_1 X0 (k1_tarSKI X1) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.(v1_card_1 X1)\Rightarrow((X1 = k1_card_1 X0)\Leftrightarrow(r2_wellord2 X0 X1)) \quad (11)$$

Theorem 1

$$\forall X0.(v1_card_1 X0)\Rightarrow(\forall X1.k7_card_3 (k16_funcop_1 X1 X0) = X0)$$