

t65_card_2

(TMLqF5kevMeJFKrX769HpkwVA11TAGuz21z)

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Let $v1_card_1 : \iota \Rightarrow o$ be given. Let $k6_card_3 : \iota \Rightarrow \iota$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_card_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_card_3 : \iota \Rightarrow \iota$ be given. Let $k2_card_3 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r2_wellord2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $v1_card_3 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. k3_card_3 (k2_card_3 (k7_funcop_1 X0 X1)) = k2_zfmisc_1 X1 X0 \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop_1 X0 X1 = k2_funcop_1 X0 X1 \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (r2_wellord2 (k2_zfmisc_1 X0 X1) (k2_zfmisc_1 X1 X0)) \wedge (k1_card_1 (k2_zfmisc_1 X0 X1) = k1_card_1 (k2_zfmisc_1 X1 X0)) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (v1_card_1 X1) \Rightarrow (v1_card_3 (k2_funcop_1 X0 X1)) \quad (4)$$

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.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_card_3 X0))) \Rightarrow (k6_card_3 X0 = k1_card_1 (k3_card_3 (k2_card_3 X0))) \quad (6)$$

Assume the following.

$$\forall X0. (v1_card_1 X0) \Rightarrow (\forall X1. (v1_card_1 X1) \Rightarrow (k2_card_2 X0 X1 = k1_card_1 (k2_zfmisc_1 X0 X1))) \quad (7)$$

Theorem 1

$$\forall X0.(v1_card_1 X0) \Rightarrow (\forall X1.(v1_card_1 X1) \Rightarrow (k6_card_3 (k7_funcop_1 X0 X1) = k2_card_2 X0 X1))$$