

t8_sgraph1

(TMNnk3HzvMby5K4kNsR5vbeBgyYyxmuZaLf)

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Let $k2_sgraph1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \neg(k1_card_1 X0 = np_2) \wedge (\forall X1. \forall X2. \neg(X1 \neq X2) \wedge (X0 = k2_tarski X1 X2)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (X0 \neq X1) \Rightarrow (k5_card_1 (k2_tarski X0 X1) = np_2) \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (r1_tarski (k2_tarski X0 X1) X2) \Leftrightarrow ((X0 \in X2) \wedge (X1 \in X2)) \quad (4)$$

Assume the following.

$$\forall X0. (v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \quad (5)$$

Assume the following.

$$\forall X0. k2_sgraph1 X0 = ReplSep (toset (\lambda X1 : \iota. (v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0)))) (\lambda X1 : \iota. k5_card_1 X1 = np_2) (\lambda X1 : \iota. X1) \quad (6)$$

Theorem 1

$$\forall X0. \forall X1. (X1 \in k2_sgraph1 X0) \Leftrightarrow (((v1_finset_1 X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X0))) \wedge (\exists X2. \exists X3. (X2 \in X0) \wedge ((X3 \in X0) \wedge (X2 \neq X3) \wedge (X1 = k2_tarski X2 X3))))$$