

t14_sgraph1 (TMRt- GTJ9VawZSboBXxemoQeY24crGNTjUAW)

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Let $v1_zfmisc.1 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. 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 $r1_tarSKI : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_card.1 : \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. (X1 \in k2_sgraph1 X0) \Leftrightarrow (((v1_finset.1 X1) \wedge (m1_subset.1 X1 (k1_zfmisc.1 X0))) \wedge (\exists X2. \exists X3. (X2 \in X0) \wedge ((X3 \in X0) \wedge ((X2 \neq X3) \wedge (X1 = k2_tarSKI X2 X3)))))) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \neg (X0 \in X1) \wedge (v1_xboole.0 X1) \quad (2)$$

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.

$$\forall X0. \forall X1. ((r1_tarSKI X0 X1) \wedge (v1_finset.1 X1)) \Rightarrow (v1_finset.1 X0) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarSKI X0 X1) \Rightarrow (r1_tarSKI (k2_sgraph1 X0) (k2_sgraph1 X1)) \quad (6)$$

Assume the following.

$$\forall X0. (\neg v1_zfmisc.1 X0) \Rightarrow (\exists X1. (m1_subset.1 X1 (k1_zfmisc.1 X0)) \wedge ((\neg v1_zfmisc.1 X1) \wedge (v1_finset.1 X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(r1_tarSKI X0 X1)\Leftrightarrow(\forall X2.(X2 \in X0)\Rightarrow (X2 \in X1)) \quad (8)$$

Assume the following.

$$\forall X0.k2_sgraph1 X0 = ReplSep (toset (\lambda X1 : \iota.(v1_finset_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 X0)))) (\lambda X1 : \iota.k5_card_1 X1 = np_2) (\lambda X1 : \iota.X1) \quad (9)$$

Assume the following.

$$\forall X0.(v1_zfmisc_1 X0)\Leftrightarrow(\forall X1.\forall X2.((X1 \in X0)\wedge (X2 \in X0))\Rightarrow(X1 = X2)) \quad (10)$$

Theorem 1 $\forall X0.(\neg v1_zfmisc_1 X0)\Rightarrow(\neg v1_xboole_0 (k2_sgraph1 X0)).$