

t36_sgraph1

(TMPtzLecA23nbmBkkZASrdrCbAUeQspZSFi)

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Let $k2_tarSKI : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $np_2 : \iota$ be given. Let $u1_sgraph1 : \iota \Rightarrow \iota$ be given. Let $k8_sgraph1 : \iota$ be given. Let $np_3 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_sgraph1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k4_setwiseo : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_finsub_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k3_setwiseo : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $g1_sgraph1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_enumset1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ be given. Let $v4_finsub_1 : \iota \Rightarrow o$ be given. Let $v1_sgraph1 : \iota \Rightarrow o$ be given. Let $l1_sgraph1 : \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \exists X0. (& m1_subset_1 X0 (k1_zfmisc_1 (k2_sgraph1 (k2_finseq_1 \\ & np_3)))) \wedge ((X0 = k4_setwiseo (k5_finsub_1 k5_numbers) (k3_setwiseo \\ & k5_numbers np_1 np_2) (k3_setwiseo k5_numbers np_2 np_3) (\\ & k3_setwiseo k5_numbers np_3 np_1)) \wedge (k8_sgraph1 = g1_sgraph1 \\ & (k2_finseq_1 np_3) X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_3) \wedge (m2_subset_1 np_3 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_3 k5_numbers) \wedge (m1_subset_1 np_3 k1_numbers)) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_2) \wedge (m2_subset_1 np_2 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_2 k5_numbers) \wedge (m1_subset_1 np_2 k1_numbers)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \tag{4}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{5}$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((m1_subset_1 X1 X0)\wedge((m1_subset_1 X2 X0)\wedge(m1_subset_1 X3 X0))))\Rightarrow \\ & (k4_setwiseo X0 X1 X2 X3 = k1_enumset1 X1 X2 X3) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_subset_1 \\ & X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(k3_setwiseo X0 X1 X2 = k2_tarski X1 \\ & X2) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_sgraph1 \\ & X0)))\Rightarrow(\forall X2.\forall X3.(g1_sgraph1 X0 X1 = g1_sgraph1 X2 \\ & X3)\Rightarrow((X0 = X2)\wedge(X1 = X3))) \end{aligned} \quad (8)$$

Assume the following.

$$(\neg v1_xboole_0 k4_ordinal1)\wedge(v3_ordinal1 k4_ordinal1) \quad (9)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 (k5_finsub_1 X0))\wedge(v4_finsub_1 (k5_finsub_1 X0)) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_subset_1 \\ & X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(m1_subset_1 (k3_setwiseo X0 X1 X2) \\ & (k5_finsub_1 X0)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 (k2_sgraph1 \\ & X0)))\Rightarrow((v1_sgraph1 (g1_sgraph1 X0 X1))\wedge(l1_sgraph1 (g1_sgraph1 \\ & X0 X1))) \end{aligned} \quad (12)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.(X3 = k1_enumset1 \\ & X0 X1 X2)\Leftrightarrow(\forall X4.(X4 \in X3)\Leftrightarrow(\neg(X4 \neq X0)\wedge((X4 \neq X1)\wedge(X4 \neq X2)))) \end{aligned} \quad (13)$$

Assume the following.

$$\forall X0.\forall X1.k2_tarski X0 X1 = k2_tarski X1 X0 \quad (14)$$

Assume the following.

$$\begin{aligned} & \forall X0.(l1_sgraph1 X0)\Rightarrow((v1_sgraph1 X0)\Rightarrow(X0 = g1_sgraph1 \\ & (u1_struct_0 X0) (u1_sgraph1 X0))) \end{aligned} \quad (15)$$

Theorem 1

$(k2_tarSKI\ np_1\ np_2 \in u1_sgraph1\ k8_sgraph1) \wedge ((k2_tarSKI\ np_2\ np_3 \in u1_sgraph1\ k8_sgraph1) \wedge (k2_tarSKI\ np_3\ np_1 \in u1_sgraph1\ k8_sgraph1))$