

t11_jgraph_4

(TMTtsBPXhdGkAnspSFJeTNgcCS2dYobRLz5)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k15_euclid : \iota \Rightarrow \iota$ be given. Let $k1_jgraph_4 : \iota \Rightarrow \iota$ be given. Let $k1_euclid : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v5_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $k3_topmetr : \iota$ be given. Let $v1_pre_topc : \iota \Rightarrow o$ be given. Let $v2_pre_topc : \iota \Rightarrow o$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $l1_pre_topc : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (u1_struct_0 (k15_euclid X0) = k1_euclid X0) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.\exists X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \wedge ((v1_xboole_0 X2) \wedge ((v1_relat_1 X2) \wedge ((v4_relat_1 X2 X0) \wedge (v5_relat_1 X2 X1)))) \quad (3)$$

Assume the following.

$$(\neg v2_struct_0 k3_topmetr) \wedge ((v1_pre_topc k3_topmetr) \wedge (v2_pre_topc k3_topmetr)) \quad (4)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \quad (5)$$

Assume the following.

$$\forall X0.(l1_pre_topc X0) \Rightarrow (l1_struct_0 X0) \quad (6)$$

Assume the following.

$$(v2_pre_topc\ k3_topmetr)\wedge(l1_pre_topc\ k3_topmetr) \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow&((v1_funct_1\ (k1_jgraph_4\ X0))\wedge \\ &((v1_funct_2\ (k1_jgraph_4\ X0)\ (u1_struct_0\ (k15_euclid\ X0))\ (\\ &u1_struct_0\ k3_topmetr))\wedge(m1_subset_1\ (k1_jgraph_4\ X0)\ (k1_zfmisc_1 \\ &(k2_zfmisc_1\ (u1_struct_0\ (k15_euclid\ X0))\ (u1_struct_0\ k3_topmetr)))))) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.(m1_subset_1\ X2\ (k1_zfmisc_1 \\ (k2_zfmisc_1\ X0\ X1)))\Rightarrow&(((X1\neq k1_xboole_0)\Rightarrow((v1_funct_2\ X2\ X0 \\ X1)\Leftrightarrow(X0 = k1_relset_1\ X0\ X2)))\wedge((X1 = k1_xboole_0)\Rightarrow((v1_funct_2 \\ X2\ X0\ X1)\Leftrightarrow(X2 = k1_xboole_0)))) \end{aligned} \quad (9)$$

Theorem 1

$$\begin{aligned} \forall X0.(v7_ordinal1\ X0)\Rightarrow&((k1_relset_1\ (u1_struct_0\ (k15_euclid \\ X0))\ (k1_jgraph_4\ X0) = u1_struct_0\ (k15_euclid\ X0))\wedge(k1_relset_1 \\ (u1_struct_0\ (k15_euclid\ X0))\ (k1_jgraph_4\ X0) = k1_euclid\ X0)) \end{aligned}$$