

t23_graph_5

(TMLww2Xqve5zH5kyF87B67Gfi4gsyjk94zv)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_graph_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u4_struct_0 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_graph_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k7_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 \\ X1))) \Rightarrow (r1_tarski (k10_xtuple_0 X0) (k10_xtuple_0 (k7_finseq_1 \\ X1 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v1_finseq_1 X0))) \Rightarrow \\ (\forall X1.((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 \\ X1))) \Rightarrow (r1_tarski (k10_xtuple_0 X0) (k10_xtuple_0 (k7_finseq_1 \\ X0 X1)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((\neg v2_struct_0 X2) \wedge (l1_graph_1 \\ X2)) \Rightarrow (\forall X3. (m2_finseq_1 X3 (u4_struct_0 X2)) \Rightarrow (\forall X4. \\ (m2_finseq_1 X4 (u4_struct_0 X2)) \Rightarrow (((r1_tarski (k10_xtuple_0 \\ X3) (k10_xtuple_0 X4)) \wedge (r1_tarski (k7_subset_1 (u1_struct_0 \\ X2) (k2_graph_5 X2 X4) X0) X1)) \Rightarrow (r1_tarski (k7_subset_1 (u1_struct_0 \\ X2) (k2_graph_5 X2 X3) X0) X1)))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_finseq_1 X1 X0)\wedge(m1_finseq_1 X2 X0))\Rightarrow(k8_finseq_1 X0 X1 X2 = k7_finseq_1 X1 X2) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Rightarrow((v1_funct_1 X1)\wedge((v1_finseq_1 X1)\wedge(m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers X0)))))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow((v1_relat_1 X1)\wedge((v1_funct_1 X1)\wedge(v1_finseq_1 X1))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((m1_finseq_1 X1 X0)\wedge(m1_finseq_1 X2 X0))\Rightarrow(m2_finseq_1 (k8_finseq_1 X0 X1 X2) X0) \quad (8)$$

Theorem 1

$$\forall X0.\forall X1.\forall X2.((\neg v2_struct_0 X2)\wedge(l1_graph_1 X2))\Rightarrow(\forall X3.(m2_finseq_1 X3 (u4_struct_0 X2))\Rightarrow(\forall X4.(m2_finseq_1 X4 (u4_struct_0 X2))\Rightarrow((r1_tarski (k7_subset_1 (u1_struct_0 X2) (k2_graph_5 X2 (k8_finseq_1 (u4_struct_0 X2) X3 X4)) X0) X1)\Rightarrow((r1_tarski (k7_subset_1 (u1_struct_0 X2) (k2_graph_5 X2 X3) X0) X1)\wedge(r1_tarski (k7_subset_1 (u1_struct_0 X2) (k2_graph_5 X2 X4) X0) X1))))))$$