

t23_comput_1 (TM-
STk7uf8beG4kCxBAHgyqxhx6BNwSj5UWM)

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Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v4_valued_0 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $v2_comput_1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ 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 $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. (v1_relat_1 X2) \Rightarrow (((r1_tarski \\ & (k9_xtuple_0 X2) X0) \wedge (r1_tarski (k10_xtuple_0 X2) X1)) \Rightarrow (m1_subset_1 \\ & X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v2_margrel1 X1) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 X0) X0)))))) \Rightarrow (((v3_margrel1 \\ & X1 X0) \wedge (\neg v1_xboole_0 X1)) \Leftrightarrow (k1_relset_1 (k3_finseq_2 X0) X1 = k4_finseq_2 \\ & (k19_margrel1 X1) X0)) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_relat_1 X0) \wedge ((v4_relat_1 X0 (k3_finseq_2 k5_numbers)) \wedge \\ & ((v1_funct_1 X0) \wedge ((v4_valued_0 X0) \wedge (v2_comput_1 X0)))))) \Rightarrow ((\\ & v1_funct_1 X0) \wedge ((v3_margrel1 X0 k5_numbers) \wedge (m1_subset_1 X0 \\ & (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 k5_numbers) k5_numbers)))))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(k1_relset_1 X0 X1 = k9_xtuple_0 X1) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge(v4_relat_1 X1 X0))\Rightarrow(m1_subset_1 (k1_relset_1 X0 X1) (k1_zfmisc_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(v1_relat_1 X0)\Rightarrow((v4_valued_0 X0)\Leftrightarrow(r1_tarski (k10_xtuple_0 X0) k5_numbers)) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 k5_numbers) k5_numbers)))\Rightarrow(((v1_funct_1 X0)\wedge(v3_margrel1 X0 k5_numbers))\Rightarrow((v1_funct_1 X0)\wedge(v2_comput_1 X0))) \quad (8)$$

Assume the following.

$$\forall X0.((v1_xboole_0 X0)\wedge(v1_relat_1 X0))\Rightarrow((v1_relat_1 X0)\wedge(v2_margrel1 X0)) \quad (9)$$

Theorem 1

$$\forall X0.((v1_relat_1 X0)\wedge((v4_relat_1 X0 (k3_finseq_2 k5_numbers))\wedge((v1_funct_1 X0)\wedge((v4_valued_0 X0)\wedge(v2_margrel1 X0)))))\Rightarrow(((v2_comput_1 X0)\wedge(\neg v1_xboole_0 X0))\Leftrightarrow(k1_relset_1 (k3_finseq_2 k5_numbers) X0 = k4_finseq_2 (k19_margrel1 X0) k5_numbers))$$