

t72_comput_1

(TMLSBR3Nm qHwb5RcEVM yT3Vrm5JdZev7Yqp)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v6_comput_1 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_comput_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $v3_comput_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_funct_6 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v3_ordinal1 : \iota \Rightarrow o$ 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 $m2_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k3_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k4_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_comput_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v4_comput_1 : \iota \Rightarrow o$ be given. Let $v5_comput_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Rightarrow (r1_tarski (k13_finseq_1 X0) (k13_finseq_1 X1)) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. ((X0 \in X1) \wedge (m1_subset_1 X1 (k1_zfmisc_1 X2))) \Rightarrow (m1_subset_1 X0 X2) \quad (2)$$

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.

$$\forall X0. \forall X1. (m1_subset_1 X0 X1) \Rightarrow ((v1_xboole_0 X1) \vee (X0 \in X1)) \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((\neg v1_xboole_0 X2)\wedge(m1_rfunc3 X2 X0 X1))\wedge \\ & ((\neg v1_xboole_0 X3)\wedge(m1_subset_1 X3 (k1_zfmisc_1 X2))))))\Rightarrow(\forall X4. \\ & (m1_comput_1 X4 X0 X1 X2 X3)\Leftrightarrow(m1_subset_1 X4 X3)) \end{aligned} \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.k3_finseq_2 X0 = k13_finseq_1 X0 \quad (8)$$

Assume the following.

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

Assume the following.

$$\forall X0.\neg v1_xboole_0 (k13_finseq_1 X0) \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.(m1_finseq_1 X1 X0)\Rightarrow((v1_relat_1 X1)\wedge \\ & (v1_funct_1 X1)\wedge(v1_finseq_1 X1)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X0)\wedge \\ & ((\neg v1_xboole_0 X1)\wedge((\neg v1_xboole_0 X2)\wedge(m1_rfunc3 X2 X0 X1))\wedge \\ & ((\neg v1_xboole_0 X3)\wedge(m1_subset_1 X3 (k1_zfmisc_1 X2))))))\Rightarrow(\forall X4. \\ & (m1_comput_1 X4 X0 X1 X2 X3)\Rightarrow(m2_rfunc3 X4 X0 X1 X2)) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 (k2_comput_1 X0))\wedge(m1_rfunc3 (k2_comput_1 X0) (k3_finseq_2 X0) X0) \quad (13)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_relat_1 X1)\wedge((v1_funct_1 X1)\wedge(v1_finseq_1 \\ & X1)))\Rightarrow((m1_finseq_1 X1 X0)\Leftrightarrow(r1_tarski (k10_xtuple_0 X1) X0)) \end{aligned} \quad (14)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v6_comput_1 X0)\Leftrightarrow(((k3_comput_1 k6_numbers k6_numbers \in \\ & X0)\wedge((k4_comput_1 np_1 np_1 \in X0)\wedge((\forall X1.(m1_subset_1 \\ & X1 k5_numbers)\Rightarrow(\forall X2.(m1_subset_1 X2 k5_numbers)\Rightarrow(((r1_xxreal_0 \\ & np_1 X2)\wedge(r1_xxreal_0 X2 X1))\Rightarrow(k5_comput_1 X1 X2 \in X0))))))\wedge((v4_comput_1 \\ & X0)\wedge(v5_comput_1 X0)))) \end{aligned} \quad (15)$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v4_comput_1 X0) \Leftrightarrow (\forall X1.(m2_rfunct_3 X1 (k3_finseq_2 \\
& \quad k5_numbers) k5_numbers (k2_comput_1 k5_numbers)) \Rightarrow (\forall X2. \\
& \quad ((v3_comput_1 X2) \wedge (m2_finseq_1 X2 (k2_comput_1 k5_numbers))) \Rightarrow \\
& \quad (((X1 \in X0) \wedge ((k19_margrel1 X1 = k3_finseq_1 X2) \wedge (r1_tarski (k10_xtuple_0 \\
& \quad X2) X0))) \Rightarrow (k3_relat_1 (k6_funct_6 X2) X1 \in X0))))
\end{aligned} \tag{16}$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k13_finseq_1 X0) \Leftrightarrow (\forall X2.(X2 \in X1) \Leftrightarrow (m2_finseq_1 X2 X0)) \tag{17}$$

Theorem 1

$$\begin{aligned}
& \forall X0.((\neg v1_xboole_0 X0) \wedge ((v6_comput_1 X0) \wedge (m1_subset_1 \\
& \quad X0 (k1_zfmisc_1 (k2_comput_1 k5_numbers)))) \Rightarrow (\forall X1.(m1_comput_1 \\
& \quad X1 (k3_finseq_2 k5_numbers) k5_numbers (k2_comput_1 k5_numbers) \\
& \quad X0) \Rightarrow (\forall X2.((v3_comput_1 X2) \wedge (m2_finseq_1 X2 X0)) \Rightarrow ((k19_margrel1 \\
& \quad X1 = k3_finseq_1 X2) \Rightarrow (k3_relat_1 (k6_funct_6 X2) X1 \in X0))))
\end{aligned}$$