

t47_comput_1
(TMVh9dvMsf43Td9j8mnCR6SgvdvWcKAm64b)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m2_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k2_comput_1 : \iota \Rightarrow \iota$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ 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 $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_rfunct_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. k4_finseq_2\ k6_numbers\ X0 = k1_tarski\ k1_xboole_0 \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (\forall X1. ((v1_funct_1\ X1) \wedge \\ & (\neg v1_xboole_0\ X1) \wedge ((v2_margrel1\ X1) \wedge ((v3_margrel1\ X1\ X0) \wedge (m1_subset_1 \\ & X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ (k3_finseq_2\ X0)\ X0)))))) \Rightarrow (k9_xtuple_0 \\ & X1 = k4_finseq_2\ (k19_margrel1\ X1)\ X0)) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((v1_relat_1\ X0) \wedge (v1_funct_1\ X0)) \Rightarrow (\forall X1. (\forall X2. \\ & (X2 \in k9_xtuple_0\ X0) \Rightarrow (k1_funct_1\ X0\ X2 = X1)) \Rightarrow (X0 = k2_funcop_1 \\ & (k9_xtuple_0\ X0)\ X1)) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0\ X2) \wedge (m1_rfunct_3 \\ & X2\ X0\ X1)) \Rightarrow (\forall X3. (m2_rfunct_3\ X3\ X0\ X1\ X2) \Leftrightarrow (m1_subset_1\ X3 \\ & X2)) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. k7_funcop_1\ X0\ X1 = k2_funcop_1\ X0\ X1 \quad (5)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X2)\wedge(m1_r\,funct_3 \\ X2 X0 X1))\Rightarrow(\forall X3.(m2_r\,funct_3 X3 X0 X1 X2)\Rightarrow((v1_funct_1 X3)\wedge \\ (m1_subset_1 X3 (k1_z\,fmisc_1 (k2_z\,fmisc_1 X0 X1)))))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(\neg v1_xboole_0 (k2_comput_1 X0))\wedge(m1_r\,funct_3 (k2_comput_1 X0) (k3_finseq_2 X0) X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.(X1 = k1_tarski X0)\Leftrightarrow(\forall X2.(X2 \in X1)\Leftrightarrow (X2 = X0)) \quad (9)$$

Assume the following.

$$\forall X0.\forall X1.(m1_subset_1 X1 (k2_comput_1 X0))\Rightarrow(v2_margrel1 X1) \quad (10)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_z\,fmisc_1 (k2_z\,fmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.((\neg v1_xboole_0 X1)\wedge \\ ((v3_margrel1 X1 X0)\wedge(m2_r\,funct_3 X1 (k3_finseq_2 X0) X0 (k2_comput_1 \\ X0))))\Rightarrow(\forall X2.((\neg v1_xboole_0 X2)\wedge((v3_margrel1 X2 X0)\wedge \\ (m2_r\,funct_3 X2 (k3_finseq_2 X0) X0 (k2_comput_1 X0))))\Rightarrow(((k19_margrel1 \\ X1 = k6_numbers)\wedge((k19_margrel1 X2 = k6_numbers)\wedge(k1_funct_1 \\ X1 k1_xboole_0 = k1_funct_1 X2 k1_xboole_0))\Rightarrow(X1 = X2)))))) \end{aligned}$$