

l6_aofa_000 (TMNJs-
GeysMMHsHU1Cx1KVuiD8AdgrX1rbTw)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v8_comput_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_aofa_000 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_funcop_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $k18_margrel1 : \iota \Rightarrow \iota$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ (\forall X2. (v7_ordinal1 X2) \Rightarrow (k19_margrel1 (k1_aofa_000 X0 X0 \\ (k4_finseq_2 X2 X0) X1) = X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. \forall X3. ((\neg v1_xboole_0 X1) \wedge \\ ((m1_finseq_2 X2 X0) \wedge (m1_subset_1 X3 X1))) \Rightarrow (k1_aofa_000 X0 X1 \\ X2 X3 = k2_funcop_1 X2 X3) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. ((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge (v2_margrel1 X0))) \Rightarrow \\ (k19_margrel1 X0 = k18_margrel1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0 X0) \wedge ((m1_subset_1 \\ X1 X0) \wedge (v7_ordinal1 X2))) \Rightarrow ((\neg v1_xboole_0 (k2_funcop_1 (k4_finseq_2 \\ X2 X0) X1)) \wedge ((v1_funct_1 (k2_funcop_1 (k4_finseq_2 X2 X0) X1)) \wedge \\ ((v2_margrel1 (k2_funcop_1 (k4_finseq_2 X2 X0) X1)) \wedge (v3_margrel1 \\ (k2_funcop_1 (k4_finseq_2 X2 X0) X1) X0)))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. (v7_ordinal1 X0) \Rightarrow (m1_finseq_2 (k4_finseq_2 \\ X0 X1) X1) \quad (5)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.((\neg v1_xboole_0 X1)\wedge \\ & ((m1_finseq_2 X2 X0)\wedge(m1_subset_1 X3 X1)))\Rightarrow((v1_funct_1 (k1_aofa_000 \\ & X0 X1 X2 X3))\wedge(m1_subset_1 (k1_aofa_000 X0 X1 X2 X3) (k1_zfmisc_1 \\ & (k2_zfmisc_1 (k3_finseq_2 X0) X1)))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.((v1_relat_1 X1)\wedge(v2_margrel1 X1))\Rightarrow((\\ & v8_comput_1 X1 X0)\Leftrightarrow(k18_margrel1 X1 = X0)) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 \\ & (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \end{aligned} \quad (8)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow \\ & (\forall X2.(v7_ordinal1 X2)\Rightarrow(v8_comput_1 (k1_aofa_000 X0 X0 \\ & (k4_finseq_2 X2 X0) X1) X2))) \end{aligned}$$