

t10_yellow15

(TMbXeumB9jaHjcMTzg5yKytVmjcitBXVtMc)

October 27, 2020

Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_margrel1 : \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k8_margrel1 : \iota$ be given. Let $k1_yellow15 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_margrel1 : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ 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 $k9_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_xboolean : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ & (m2_finseq_1 X2 k6_margrel1) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (\\ & ((X3 \in k4_finseq_1 X1) \wedge (k1_funct_1 X2 X3 = k7_margrel1)) \Rightarrow (k1_funct_1 \\ & (k1_yellow15 X0 X1 X2) X3 = k6_subset_1 X0 (k1_funct_1 X1 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. (m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ & (m2_finseq_1 X2 k6_margrel1) \Rightarrow (\forall X3. (v7_ordinal1 X3) \Rightarrow (\\ & (k1_funct_1 X2 X3 = k8_margrel1) \Rightarrow (k1_funct_1 (k1_yellow15 X0 X1 \\ & X2) X3 = k1_funct_1 X1 X3)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1_relat_1 X1) \wedge ((v1_funct_1 X1) \wedge (v1_finseq_1 \\ & X1))) \Rightarrow ((X1 = k9_finseq_1 X0) \Leftrightarrow ((k3_finseq_1 X1 = np_1) \wedge (k1_funct_1 \\ & X1 np_1 = X0))) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1 X1)\wedge((v1_funct_1 X1)\wedge(v1_finseq_1 X1)))\Rightarrow((X1 = k9_finseq_1 X0)\Leftrightarrow((k4_finseq_1 X1 = k2_finseq_1 np_1)\wedge(k10_xtuple_0 X1 = k1_tarski X0))) \quad (4)$$

Assume the following.

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.(v7_ordinal1 X1)\Rightarrow((X0 \in k2_finseq_1 X1)\Leftrightarrow((r1_xxreal_0 np_1 X0)\wedge(r1_xxreal_0 X0 X1)))) \quad (5)$$

Assume the following.

$$((v2_xxreal_0 np_1)\wedge(m2_subset_1 np_1 k1_numbers k5_numbers))\wedge((m1_subset_1 np_1 k5_numbers)\wedge(m1_subset_1 np_1 k1_numbers)) \quad (6)$$

Assume the following.

$$r1_xxreal_0 np_1 np_1 \quad (7)$$

Assume the following.

$$\forall X0.k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (8)$$

Assume the following.

$$\forall X0.k9_finseq_1 X0 = k5_finseq_1 X0 \quad (9)$$

Assume the following.

$$k8_margrel1 = k2_xboolean \quad (10)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (11)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge(m1_subset_1 X1 X0))\Rightarrow(k12_finseq_1 X0 X1 = k5_finseq_1 X1) \quad (12)$$

Assume the following.

$$\forall X0.v1_finseq_1 (k5_finseq_1 X0) \quad (13)$$

Assume the following.

$$\forall X0.(v1_relat_1 (k5_finseq_1 X0)\wedge(v1_funct_1 (k5_finseq_1 X0))) \quad (14)$$

Assume the following.

$$\forall X0.\neg v1_xboole_0 (k1_zfmisc_1 X0) \quad (15)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0)\wedge(m1_subset_1 X1 X0))\Rightarrow (m2_finseq_1 (k12_finseq_1 X0 X1) X0) \quad (16)$$

Assume the following.

$$k2_xboolean = np_1 \quad (17)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (18)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(\forall X2. \\ & (m2_finseq_1 X2 k6_margrel1)\Rightarrow(((k1_funct_1 X2 np_1 = k8_margrel1)\Rightarrow \\ & (k1_funct_1 (k1_yellow15 X0 (k12_finseq_1 (k1_zfmisc_1 X0) X1) \\ & X2) np_1 = X1))\wedge((k1_funct_1 X2 np_1 = k7_margrel1)\Rightarrow(k1_funct_1 \\ & (k1_yellow15 X0 (k12_finseq_1 (k1_zfmisc_1 X0) X1) X2) np_1 = k6_subset_1 \\ & X0 X1)))) \end{aligned}$$