

t12_yellow15
(TMZ8KgVAoTFavs8p7J2JjNvn7GdeaQQtNUX)

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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 $k2_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_margrel1 : \iota$ be given. Let $k6_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v3_card_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k9_setfam_1 : \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ 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 $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_xboolean : \iota$ be given. Let $k1_xboolean : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((\\ v1_funct_1 X1) \wedge ((v3_card_1 X1 X0) \wedge (v1_finseq_1 X1)))) \Rightarrow (k4_finseq_1 \\ X1 = k2_finseq_1 X0)) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ (m2_finseq_1 X2 k6_margrel1) \Rightarrow (\forall X3.(v7_ordinal1 X3) \Rightarrow (\\ ((X3 \in k4_finseq_1 X1) \wedge (k1_funct_1 X2 X3 = k7_margrel1)) \Rightarrow (k1_funct_1 \\ (k1_yellow15 X0 X1 X2) X3 = k6_subset_1 X0 (k1_funct_1 X1 X3)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(m2_finseq_1 X1 (k9_setfam_1 X0)) \Rightarrow (\forall X2. \\ (m2_finseq_1 X2 k6_margrel1) \Rightarrow (\forall X3.(v7_ordinal1 X3) \Rightarrow (\\ (k1_funct_1 X2 X3 = k8_margrel1) \Rightarrow (k1_funct_1 (k1_yellow15 X0 X1 \\ X2) X3 = k1_funct_1 X1 X3)))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v1_relat_1 X2)\wedge((v1_funct_1 X2)\wedge(v1_finseq_1 X2)))\Rightarrow((X2 = k10_finseq_1 X0 X1)\Leftrightarrow((k3_finseq_1 X2 = np_2)\wedge((k1_funct_1 X2 np_1 = X0)\wedge(k1_funct_1 X2 np_2 = X1)))) \quad (4)$$

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.

$$((v2_xxreal_0 np_2)\wedge(m2_subset_1 np_2 k1_numbers k5_numbers))\wedge((m1_subset_1 np_2 k5_numbers)\wedge(m1_subset_1 np_2 k1_numbers)) \quad (6)$$

Assume the following.

$$((v2_xxreal_0 np_1)\wedge(m2_subset_1 np_1 k1_numbers k5_numbers))\wedge((m1_subset_1 np_1 k5_numbers)\wedge(m1_subset_1 np_1 k1_numbers)) \quad (7)$$

Assume the following.

$$\neg v1_xboole_0 np_1 \quad (8)$$

Assume the following.

$$r1_xxreal_0 np_2 np_2 \quad (9)$$

Assume the following.

$$r1_xxreal_0 np_1 np_2 \quad (10)$$

Assume the following.

$$r1_xxreal_0 np_1 np_1 \quad (11)$$

Assume the following.

$$\forall X0.k9_setfam_1 X0 = k1_zfmisc_1 X0 \quad (12)$$

Assume the following.

$$k8_margrel1 = k2_xboolean \quad (13)$$

Assume the following.

$$k7_margrel1 = k1_xboolean \quad (14)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (15)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (16)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_subset_1 X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(k2_finseq_4 X0 X1 X2 = k10_finseq_1 X1 X2) \quad (17)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 (k10_finseq_1 X0 X1))\wedge(v1_funct_1 (k10_finseq_1 X0 X1)) \quad (18)$$

Assume the following.

$$\forall X0.\forall X1.v3_card_1 (k10_finseq_1 X0 X1) \quad np_2 \quad (19)$$

Assume the following.

$$v1_xboole_0 \quad k1_xboole_0 \quad (20)$$

Assume the following.

$$\forall X0.\neg v1_xboole_0 (k1_zfmisc_1 X0) \quad (21)$$

Assume the following.

$$\forall X0.\forall X1.v1_finseq_1 (k10_finseq_1 X0 X1) \quad (22)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_subset_1 X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(m2_finseq_1 (k2_finseq_4 X0 X1 X2) X0) \quad (23)$$

Assume the following.

$$k2_xboolean = np_1 \quad (24)$$

Assume the following.

$$k1_xboolean = k6_numbers \quad (25)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (26)$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 X0))\Rightarrow(\forall X2. \\ & (m1_subset_1 X2 (k1_zfmisc_1 X0))\Rightarrow(\forall X3.(m2_finseq_1 X3 \\ & k6_margrel1)\Rightarrow(((k1_funct_1 X3 np_1 = k8_margrel1)\Rightarrow(k1_funct_1 \\ & (k1_yellow15 X0 (k2_finseq_4 (k1_zfmisc_1 X0) X1 X2) X3) np_1 = \\ & X1))\wedge(((k1_funct_1 X3 np_1 = k7_margrel1)\Rightarrow(k1_funct_1 (k1_yellow15 \\ & X0 (k2_finseq_4 (k1_zfmisc_1 X0) X1 X2) X3) np_1 = k6_subset_1 X0 \\ & X1))\wedge(((k1_funct_1 X3 np_2 = k8_margrel1)\Rightarrow(k1_funct_1 (k1_yellow15 \\ & X0 (k2_finseq_4 (k1_zfmisc_1 X0) X1 X2) X3) np_2 = X2))\wedge((k1_funct_1 \\ & X3 np_2 = k7_margrel1)\Rightarrow(k1_funct_1 (k1_yellow15 X0 (k2_finseq_4 \\ & (k1_zfmisc_1 X0) X1 X2) X3) np_2 = k6_subset_1 X0 X2)))))) \end{aligned}$$