

t3_msualg_1 (TMV-
GyPjSTdnm3j4SuHkRMnrZ9cVyzLcXKm)

October 27, 2020

Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v2_margrel1 : \iota \Rightarrow o$ be given. Let $v3_margrel1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k19_margrel1 : \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k4_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k18_margrel1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.k4_finseq_2 X0 X1 = k1_funct_2 (k2_finseq_1 X0) X1) \quad (1)$$

Assume the following.

$$\forall X0.\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (k9_funct_2 X0 X1 = k1_funct_2 X0 X1) \quad (2)$$

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.

$$\forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge ((v1_funct_1 X1) \wedge ((v2_margrel1 X1) \wedge ((v3_margrel1 X1 X0) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 X0) X0))))))) \Rightarrow (k9_xtuple_0 X1 = k4_finseq_2 (k19_margrel1 X1) X0)) \quad (4)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0) \wedge (v2_margrel1 X0)) \Rightarrow (v7_ordinal1 (k18_margrel1 X0)) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1))) \Rightarrow (v1_relat_1 X2) \quad (6)$$

Theorem 1

$$\begin{aligned} & \forall X0.(\neg v1_xboole_0 X0) \Rightarrow (\forall X1.((\neg v1_xboole_0 X1) \wedge \\ & ((v1_funct_1 X1) \wedge ((v2_margrel1 X1) \wedge ((v3_margrel1 X1 X0) \wedge (m1_subset_1 \\ & X1 (k1_zfmisc_1 (k2_zfmisc_1 (k3_finseq_2 X0) X0)))))) \Rightarrow (k9_xtuple_0 \\ & X1 = k9_funct_2 (k2_finseq_1 (k19_margrel1 X1)) X0)) \end{aligned}$$