

t25_finseq_2
(TMUKB1eMvvdDGyGEmrENmWfT8Y2gVLAXaTt)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole.0 : \iota \Rightarrow o$ be given. Let $v1_funct.1 : \iota \Rightarrow o$ be given. Let $v1_funct.2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_finseq.1 : \iota \Rightarrow \iota$ 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 $m2_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_relat.1 : \iota \Rightarrow o$ be given. Let $v4_relat.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_relset.1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $k1_xboole.0 : \iota$ be given. Let $v1_finseq.1 : \iota \Rightarrow o$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k10_xtuple.0 : \iota \Rightarrow \iota$ be given. Let $v5_relat.1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. \forall X1. (m2_finseq.1 X1 X0) \Leftrightarrow (m1_finseq.1 X1 X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat.1 X1) \wedge (v4_relat.1 X1 X0)) \Rightarrow (k1_relset.1 X0 X1 = k9_xtuple.0 X1) \quad (2)$$

Assume the following.

$$v1_xboole.0 k1_xboole.0 \quad (3)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat.1 X1) \wedge ((v1_funct.1 X1) \wedge (v1_finseq.1 X1))) \Rightarrow ((m1_finseq.1 X1 X0) \Leftrightarrow (r1_tarski (k10_xtuple.0 X1) X0)) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat.1 X0) \Rightarrow ((v1_finseq.1 X0) \Leftrightarrow (\exists X1. (v7_ordinal1 X1) \wedge (k9_xtuple.0 X0 = k2_finseq.1 X1))) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. (m1_subset.1 X2 (k1_zfmisc.1 (k2_zfmisc.1 X0 X1))) \Rightarrow (((X1 \neq k1_xboole.0) \Rightarrow ((v1_funct.2 X2 X0 X1) \Leftrightarrow (X0 = k1_relset.1 X0 X2))) \wedge ((X1 = k1_xboole.0) \Rightarrow ((v1_funct.2 X2 X0 X1) \Leftrightarrow (X2 = k1_xboole.0)))) \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(v1_relat_1 X1)\Rightarrow((v5_relat_1 X1 X0)\Leftrightarrow(r1_tarski (k10_xtuple_0 X1) X0)) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow((v4_relat_1 X2 X0)\wedge(v5_relat_1 X2 X1)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 X1)))\Rightarrow(v1_relat_1 X2) \quad (9)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.(\neg v1_xboole_0 X1)\Rightarrow(\forall X2.((v1_funct_1 X2)\wedge((v1_funct_2 X2 (k2_finseq_1 X0) X1)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_finseq_1 X0) X1))))))\Rightarrow(m2_finseq_1 X2 X1)))$$