

t48_finseq_2

(TMKwygGRbzBoyhbrJbdvwUnp2xQP1Q9nqs9)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k10_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ 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. Assume the following.

$$\forall X0. \forall X1. (m1_subset_1 X0 (k1_zfmisc_1 X1)) \Leftrightarrow (r1_tarski X0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (2)$$

Assume the following.

$$\forall X0. k6_partfun1 X0 = k4_relat_1 X0 \quad (3)$$

Assume the following.

$$\forall X0. k10_xtuple_0 (k4_relat_1 X0) = X0 \quad (4)$$

Assume the following.

$$\forall X0. k9_xtuple_0 (k4_relat_1 X0) = X0 \quad (5)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k4_relat_1 X0)) \wedge (v1_funct_1 (k4_relat_1 X0)) \quad (6)$$

Assume the following.

$$\forall X0. v1_relat_1 (k4_relat_1 X0) \quad (7)$$

Assume the following.

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(m1_subset_1\ (k2_finseq_1\ X0)\ (k1_zfmisc_1\ k5_numbers)) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((v1_relat_1\ X1)\wedge((v1_funct_1\ X1)\wedge(v1_finseq_1\ X1)))\Rightarrow((m1_finseq_1\ X1\ X0)\Leftrightarrow(r1_tarski\ (k10_xtuple_0\ X1)\ X0)) \quad (9)$$

Assume the following.

$$\forall X0.(v1_relat_1\ X0)\Rightarrow((v1_finseq_1\ X0)\Leftrightarrow(\exists X1.(v7_ordinal1\ X1)\wedge(k9_xtuple_0\ X0 = k2_finseq_1\ X1))) \quad (10)$$

Theorem 1

$$\forall X0.(v7_ordinal1\ X0)\Rightarrow(m2_finseq_1\ (k6_partfun1\ (k2_finseq_1\ X0))\ k5_numbers)$$