

t17_finsop_1

(TManAx8mwvdJhATW9LJ1LvZnbhceN3qdhWn)

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Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ 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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k1_finsop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_2 : \iota$ be given. Let $k5_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k4_ordinal1 : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. k2_finseq_2\ np_2\ X0 = k10_finseq_1\ X0\ X0 \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0. (\neg v1_xboole_0\ X0) \Rightarrow (\forall X1. (m1_subset_1\ X1\ X0) \Rightarrow \\ (\forall X2. (m1_subset_1\ X2\ X0) \Rightarrow (\forall X3. ((v1_funct_1\ X3) \wedge \\ ((v1_funct_2\ X3\ (k2_zfmisc_1\ X0\ X0)\ X0) \wedge (m1_subset_1\ X3\ (k1_zfmisc_1 \\ (k2_zfmisc_1\ (k2_zfmisc_1\ X0\ X0)\ X0)))))) \Rightarrow (k1_finsop_1\ X0\ (k2_finseq_4 \\ X0\ X1\ X2)\ X3 = k5_binop_1\ X0\ X3\ X1\ X2)))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0\ np_2) \wedge (m2_subset_1\ np_2\ k1_numbers\ k5_numbers)) \wedge \\ ((m1_subset_1\ np_2\ k5_numbers) \wedge (m1_subset_1\ np_2\ k1_numbers)) \end{aligned} \quad (3)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0. \forall X1. \forall X2. ((\neg v1_xboole_0\ X0) \wedge ((v7_ordinal1 \\ X1) \wedge (m1_subset_1\ X2\ X0))) \Rightarrow (k5_finseq_2\ X0\ X1\ X2 = k2_finseq_2\ X1 \\ X2) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((m1_subset_1 X1 X0)\wedge(m1_subset_1 X2 X0)))\Rightarrow(k2_finseq_4 X0 X1 X2 = k10_finseq_1 X1 X2) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k4_ordinal1)\Rightarrow(v7_ordinal1 X0) \quad (7)$$

Theorem 1

$$\forall X0.(\neg v1_xboole_0 X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(\forall X2.((v1_funct_1 X2)\wedge((v1_funct_2 X2 (k2_zfmisc_1 X0 X0) X0)\wedge(m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 X0 X0) X0) X0))))\Rightarrow(k1_finsop_1 X0 (k5_finseq_2 X0 np_2 X1) X2 = k5_binop_1 X0 X2 X1 X1)))$$