

t7_mesfunc7

(TMYZZmZzc3Qx8RjrBVwxzj6LrHrMx2NAWGd)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k7_numbers : \iota$ be given. Let $k2_mesfunc7 : \iota \Rightarrow \iota$ be given. Let $k12_finseq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $k5_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v1_finseq_1 : \iota \Rightarrow o$ be given. Let $v2_valued_0 : \iota \Rightarrow o$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k1_mesfunc7 : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0. (\neg v1_xboole_0 X0) \Rightarrow (\forall X1. (m1_subset_1 X1 X0) \Rightarrow \\ & (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 (k2_zfmisc_1 X0 \\ & X0) X0) \wedge (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 \\ & X0 X0) X0)))))) \Rightarrow (k1_finsop_1 X0 (k12_finseq_1 X0 X1) X2 = X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k12_finseq_1 X0 X1 = k5_finseq_1 X1) \quad (2)$$

Assume the following.

$$\forall X0. v1_finseq_1 (k5_finseq_1 X0) \quad (3)$$

Assume the following.

$$\forall X0. (m1_subset_1 X0 k7_numbers) \Rightarrow (v2_valued_0 (k5_finseq_1 X0)) \quad (4)$$

Assume the following.

$$\forall X0. (v1_relat_1 (k5_finseq_1 X0) \wedge (v1_funct_1 (k5_finseq_1 X0))) \quad (5)$$

Assume the following.

$$\neg v1_xboole_0 k7_numbers \quad (6)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge((v1_finseq_1 X0)\wedge(v2_valued_0 X0))))\Rightarrow(m1_subset_1 (k2_mesfunc7 X0) k7_numbers) \quad (7)$$

Assume the following.

$$(v1_funct_1 k1_mesfunc7)\wedge((v1_funct_2 k1_mesfunc7 (k2_zfmisc_1 k7_numbers k7_numbers) k7_numbers)\wedge(m1_subset_1 k1_mesfunc7 (k1_zfmisc_1 (k2_zfmisc_1 (k2_zfmisc_1 k7_numbers k7_numbers) k7_numbers)))) \quad (8)$$

Assume the following.

$$\forall X0.((v1_relat_1 X0)\wedge((v1_funct_1 X0)\wedge((v1_finseq_1 X0)\wedge(v2_valued_0 X0))))\Rightarrow(\forall X1.(m1_subset_1 X1 k7_numbers)\Rightarrow((X1 = k2_mesfunc7 X0)\Leftrightarrow(\exists X2.(m2_finseq_1 X2 k7_numbers)\wedge((X2 = X0)\wedge(X1 = k1_finsop_1 k7_numbers X2 k1_mesfunc7)))) \quad (9)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 k7_numbers)\Rightarrow(k2_mesfunc7 (k12_finseq_1 k7_numbers X0) = X0)$$