

t28_matrixc1
(TMQJC4Cf7uFcizZ6rWADGsM67nqPSPbgsQw)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k17_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k12_seq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_binop_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ 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. Let $v1_valued_0 : \iota \Rightarrow o$ be given. Let $k9_rvsum_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k16_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k24_valued_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_membered : \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.((v1_relat_1 X1) \wedge ((\\ v1_funct_1 X1) \wedge ((v1_finseq_1 X1) \wedge (v1_valued_0 X1)))) \Rightarrow (k17_rvsum_1 \\ (k9_rvsum_2 X1 X0) = k5_binop_2 X0 (k16_rvsum_1 X1))) \end{aligned} \quad (1)$$

Assume the following.

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

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((v1_relat_1 X0) \wedge ((v1_funct_1 X0) \wedge ((\\ v1_finseq_1 X0) \wedge (v1_valued_0 X0)))) \wedge (v1_xcmplx_0 X1)) \Rightarrow (k9_rvsum_2 \\ X0 X1 = k24_valued_1 X0 X1) \end{aligned} \quad (3)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers) \Rightarrow (k17_rvsum_1 X0 = k16_rvsum_1 X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((m1_finseq_1 X0 k2_numbers) \wedge (v1_xcmplx_0 X1)) \Rightarrow (k12_seq_4 X0 X1 = k24_valued_1 X0 X1) \quad (5)$$

Assume the following.

$$v1_membered\ k2_numbers \quad (6)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1\ X1\ X0)\Rightarrow((v1_funct_1\ X1)\wedge((v1_finseq_1\ X1)\wedge(m1_subset_1\ X1\ (k1_zfmisc_1\ (k2_zfmisc_1\ k5_numbers\ X0)))))) \quad (7)$$

Assume the following.

$$\forall X0.\forall X1.(m1_finseq_1\ X1\ X0)\Rightarrow((v1_relat_1\ X1)\wedge((v1_funct_1\ X1)\wedge(v1_finseq_1\ X1))) \quad (8)$$

Assume the following.

$$\forall X0.(m1_finseq_1\ X0\ k2_numbers)\Rightarrow(v1_valued_0\ X0) \quad (9)$$

Assume the following.

$$\forall X0.(v1_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow(v1_xcmplx_0\ X1)) \quad (10)$$

Theorem 1

$$\forall X0.(m2_finseq_1\ X0\ k2_numbers)\Rightarrow(\forall X1.(m1_subset_1\ X1\ k2_numbers)\Rightarrow(k17_rvsum_1\ (k12_seq_4\ X0\ X1) = k5_binop_2\ X1\ (k17_rvsum_1\ X0)))$$