

t26_matrixc1

(TMVZUko8yCRwvEDqjoUdo7NnSLm72LrQjbC)

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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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k5_matrixc1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_seq_4 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ & X1 k2_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k2_numbers) \Rightarrow ((k3_finseq_1 \\ & X0 = k3_finseq_1 X1) \Rightarrow (k5_matrixc1 X0 (k12_seq_4 X1 X2) = k12_seq_4 \\ & (k5_matrixc1 X0 X1 X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((m1_finseq_1 X0 k2_numbers) \wedge (v1_xcmplx_0 X1)) \Rightarrow (m2_finseq_1 (k12_seq_4 X0 X1) k2_numbers) \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.((m1_finseq_1 X0 k2_numbers) \wedge (m1_finseq_1 X1 k2_numbers)) \Rightarrow (k5_matrixc1 X0 X1 = k5_matrixc1 X1 X0) \tag{4}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers) \Rightarrow (v1_xcmplx_0 X0) \tag{5}$$

Theorem 1

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ & X1 k2_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k2_numbers) \Rightarrow ((k3_finseq_1 \\ & X0 = k3_finseq_1 X1) \Rightarrow (k5_matrixc1 (k12_seq_4 X0 X2) X1 = k12_seq_4 \\ & (k5_matrixc1 X0 X1 X2)))))) \end{aligned}$$