

t5_matrixr2
(TMYcLZgSxr9fP8JBvBwHhZLFFKfCkofVnTrZ)

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Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k7_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.((v1_matrix_1 \\ X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow ((k3_finseq_1 \\ (k7_matrixr1 X0 X1) = k3_finseq_1 X1) \wedge (k1_matrix_1 (k7_matrixr1 \\ X0 X1) = k1_matrix_1 X1))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.\forall X1.(X0 \in X1) \Rightarrow (m1_subset_1 X0 X1) \tag{2}$$

Assume the following.

$$\forall X0.k3_finseq_2 X0 = k13_finseq_1 X0 \tag{3}$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Leftrightarrow (X0 \in k1_numbers) \tag{4}$$

Theorem 1

$$\begin{aligned} \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.((v1_matrix_1 X1) \wedge (m2_finseq_1 \\ X1 (k3_finseq_2 k1_numbers))) \Rightarrow ((k3_finseq_1 (k7_matrixr1 X0 \\ X1) = k3_finseq_1 X1) \wedge (k1_matrix_1 (k7_matrixr1 X0 X1) = k1_matrix_1 \\ X1))) \end{aligned}$$