

t23_matrprob
(TMNhrm3J8yQGTBUgF5v9UxX5pQTg82TkMt6)

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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 $k6_numbers : \iota$ be given. Let $k5_matrprob : \iota \Rightarrow \iota$ be given. Let $k18_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrprob : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Assume the following.

$$\forall X0.(m2_finseq_1 X0 k1_numbers) \Rightarrow ((k3_finseq_1 X0 = k6_numbers) \Rightarrow (k18_rvsum_1 X0 = k6_numbers)) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k1_numbers))) \Rightarrow \\ & \quad ((k3_finseq_1 (k3_matrprob X0) = k3_finseq_1 X0) \wedge (\forall X1. \\ & (m2_subset_1 X1 k1_numbers k5_numbers) \Rightarrow ((X1 \in k2_finseq_1 (k3_finseq_1 \\ & X0)) \Rightarrow (k1_seq_1 (k3_matrprob X0) X1 = k18_rvsum_1 (k8_matrix_1 \\ & k1_numbers X0 X1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (3)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (4)$$

Assume the following.

$$\forall X0.(m1_finseq_1 X0 (k3_finseq_2 k1_numbers)) \Rightarrow (m2_finseq_1 (k3_matrprob X0) k1_numbers) \quad (5)$$

Assume the following.

$$\forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k1_numbers))) \Rightarrow (k5_matrprob X0 = k18_rvsum_1 (k3_matrprob X0)) \quad (6)$$

Theorem 1

$$\forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k1_numbers))) \Rightarrow \\ ((k3_finseq_1 X0 = k6_numbers) \Rightarrow (k5_matrprob X0 = k6_numbers))$$