

t4_matrix10
(TMG7JzJWXcjjcKRbt5vvXNBWCuKuT1YTEJU)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ 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 $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.((v1_matrix_1 \\ & X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow (\forall X2. \\ & (v7_ordinal1 X2) \Rightarrow (\forall X3.(v7_ordinal1 X3) \Rightarrow ((k4_tarski X2 \\ & X3 \in k2_matrix_1 X1) \Rightarrow (k3_matrix_1 k1_numbers (k7_matrixr1 X0 X1) \\ & X2 X3 = k8_real_1 X0 (k3_matrix_1 k1_numbers X1 X2 X3)))))) \end{aligned} \quad (1)$$

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.(v7_ordinal1 \\ & X1) \Rightarrow (\forall X2.(v7_ordinal1 X2) \Rightarrow (\forall X3.((v1_matrix_1 \\ & X3) \wedge (m2_finseq_1 X3 (k3_finseq_2 k1_numbers))) \Rightarrow ((k4_tarski \\ & X1 X2 \in k2_matrix_1 X3) \Rightarrow (k3_matrix_1 k1_numbers (k7_matrixr1 X0 \\ & X3) X1 X2 = k8_real_1 X0 (k3_matrix_1 k1_numbers X3 X1 X2)))))) \end{aligned}$$