

t23_matrixc1

(TMHqrp6ixUECorqzDyaeq1x18FwL96eyRVE)

October 27, 2020

Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_1 : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k17_rvsum_1 : \iota \Rightarrow \iota$ be given. Let $k1_complsp2 : \iota \Rightarrow \iota$ be given. Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $k1_finsop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k27_binop_2 : \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $k9_matrix_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow ((r1_xxreal_0 np_1 (k3_finseq_1 (k1_complsp2 X0))) \Rightarrow (k1_finsop_1 k2_numbers (k1_complsp2 X0) k27_binop_2 = k15_complex1 (k1_finsop_1 k2_numbers X0 k27_binop_2))) \quad (1)$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1_finseq_1 X0 k2_numbers) \Rightarrow (m2_finseq_1 (k1_complsp2 X0) k2_numbers) \quad (3)$$

Assume the following.

$$\forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 X1 k2_numbers) \Rightarrow ((X1 = k1_complsp2 X0) \Leftrightarrow ((k3_finseq_1 X1 = k3_finseq_1 X0) \wedge (\forall X2.(v7_ordinal1 X2) \Rightarrow (((r1_xxreal_0 np_1 X2) \wedge (r1_xxreal_0 X2 (k3_finseq_1 X0))) \Rightarrow (k9_matrix_5 X1 X2 = k15_complex1 (k9_matrix_5 X0 X2))))))) \quad (4)$$

Assume the following.

$$\forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (k17_rvsum_1 X0 = k1_finsop_1 k2_numbers X0 k27_binop_2) \quad (5)$$

Theorem 1

$$\forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow ((r1_xreal_0 np_1 (k3_finseq_1 X0)) \Rightarrow (k17_rsum_1 (k1_complsp2 X0) = k15_complex1 (k17_rsum_1 X0)))$$