

t12_matrixc1 (TMVLJX-
psvuNVW9vYqAkUdT38a9HgWRPDiuB)

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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 $k2_numbers : \iota$ be given. Let $k1_matrixc1 : \iota \Rightarrow \iota$ be given. Let $k4_matrix_5 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $k7_matrix_5 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k10_complex1 : \iota \Rightarrow \iota$ be given. Let $k6_complex1 : \iota$ be given. Let $k19_binop_2 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v1_int_1 : \iota \Rightarrow o$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v5_membered : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_xcmplx_0 X0) \Rightarrow (\forall X1.((v1_matrix_1 X1) \wedge (\\ m2_finseq_1 X1 (k3_finseq_2 k2_numbers))) \Rightarrow (k1_matrixc1 (k7_matrix_5 \\ X0 X1) = k7_matrix_5 (k15_complex1 X0) (k1_matrixc1 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k15_complex1 (k4_xcmplx_0 X0) = k10_complex1 (k15_complex1 X0)) \quad (2)$$

Assume the following.

$$k15_complex1 k6_complex1 = k6_complex1 \quad (3)$$

Assume the following.

$$\forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k2_numbers))) \Rightarrow (k7_matrix_5 (k19_binop_2 np_1) X0 = k4_matrix_5 X0) \quad (4)$$

Assume the following.

$$\begin{aligned} ((v2_xxreal_0 np_1) \wedge (m2_subset_1 np_1 k1_numbers k5_numbers)) \wedge \\ ((m1_subset_1 np_1 k5_numbers) \wedge (m1_subset_1 np_1 k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0)\Leftrightarrow(m1_finseq_1 X1 X0) \quad (6)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (7)$$

Assume the following.

$$\forall X0.(v1_int_1 X0)\Rightarrow(k19_binop_2 X0 = k4_xcmplx_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers)\Rightarrow(k10_complex1 X0 = k4_xcmplx_0 X0) \quad (9)$$

Assume the following.

$$v6_membered k4_ordinal1 \quad (10)$$

Assume the following.

$$m1_subset_1 k6_complex1 k2_numbers \quad (11)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0)\Rightarrow(v1_xcmplx_0 (k4_xcmplx_0 X0)) \quad (12)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_matrix_1 X0)\wedge(m1_finseq_1 X0 (k3_finseq_2 k2_numbers)))\Rightarrow \\ ((v1_matrix_1 (k1_matrixc1 X0))\wedge(m2_finseq_1 (k1_matrixc1 X0) \\ (k3_finseq_2 k2_numbers))) \end{aligned} \quad (13)$$

Assume the following.

$$k6_complex1 = np_1 \quad (14)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k2_numbers)\Rightarrow(v1_xcmplx_0 X0) \quad (15)$$

Assume the following.

$$\forall X0.(v6_membered X0)\Rightarrow(v5_membered X0) \quad (16)$$

Assume the following.

$$\forall X0.(v5_membered X0)\Rightarrow(\forall X1.(m1_subset_1 X1 X0)\Rightarrow(v1_int_1 X1)) \quad (17)$$

Theorem 1

$$\forall X0.((v1_matrix_1 X0)\wedge(m2_finseq_1 X0 (k3_finseq_2 k2_numbers)))\Rightarrow(k1_matrixc1 (k4_matrix_5 X0) = k4_matrix_5 (k1_matrixc1 X0))$$