

t33_matrix10 (TMcquGCRArqwu- jEHY3UNQcEdqrYJuS1DAdW)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v4_matrix10 : \iota \Rightarrow o$ be given. Let $k1_matrix10 : \iota \Rightarrow \iota$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k17_complex1 : \iota \Rightarrow \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k18_complex1 : \iota \Rightarrow \iota$ be given. Let $k16_complex1 : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers X0 X0) \Rightarrow (k2_matrix_1 X1 = k2_matrix_1 (k1_matrix10 X1))) \quad (1)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (r1_xxreal_0 k6_numbers (k17_complex1 X0)) \quad (2)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k18_complex1 X0 = k16_complex1 X0) \quad (4)$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k17_complex1 X0 = k16_complex1 X0) \quad (5)$$

Assume the following.

$$\neg v1_xboole_0 k1_numbers \quad (6)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 X0)\wedge((v7_ordinal1 \\ & X1)\wedge(v7_ordinal1 X2)))\Rightarrow(\forall X3.(m1_matrix_1 X3 X0 X1 X2)\Rightarrow \\ & ((v1_matrix_1 X3)\wedge(m2_finseq_1 X3 (k3_finseq_2 X0)))) \end{aligned} \quad (7)$$

Assume the following.

$$\begin{aligned} & \forall X0.\forall X1.\forall X2.\forall X3.(((v1_matrix_1 X1)\wedge \\ & (m1_finseq_1 X1 (k3_finseq_2 X0)))\wedge((v7_ordinal1 X2)\wedge(v7_ordinal1 \\ & X3)))\Rightarrow(m1_subset_1 (k3_matrix_1 X0 X1 X2 X3) X0) \end{aligned} \quad (8)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_matrix_1 X0)\wedge(m1_finseq_1 X0 (k3_finseq_2 k1_numbers)))\Rightarrow \\ & ((v1_matrix_1 (k1_matrix10 X0))\wedge(m2_finseq_1 (k1_matrix10 X0) \\ & (k3_finseq_2 k1_numbers))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_matrix_1 X0)\wedge(m2_finseq_1 X0 (k3_finseq_2 k1_numbers)))\Rightarrow \\ & (\forall X1.((v1_matrix_1 X1)\wedge(m2_finseq_1 X1 (k3_finseq_2 k1_numbers)))\Rightarrow \\ & ((X1 = k1_matrix10 X0)\Leftrightarrow((k3_finseq_1 X1 = k3_finseq_1 X0)\wedge((k1_matrix_1 \\ & X1 = k1_matrix_1 X0)\wedge(\forall X2.(v7_ordinal1 X2)\Rightarrow(\forall X3. \\ & (v7_ordinal1 X3)\Rightarrow((k4_tarski X2 X3 \in k2_matrix_1 X0)\Rightarrow(k3_matrix_1 \\ & k1_numbers X1 X2 X3 = k18_complex1 (k3_matrix_1 k1_numbers X0 X2 \\ & X3)))))))))) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_matrix_1 X0)\wedge(m2_finseq_1 X0 (k3_finseq_2 k1_numbers)))\Rightarrow \\ & ((v4_matrix10 X0)\Leftrightarrow(\forall X1.(v7_ordinal1 X1)\Rightarrow(\forall X2. \\ & (v7_ordinal1 X2)\Rightarrow((k4_tarski X1 X2 \in k2_matrix_1 X0)\Rightarrow(r1_xreal_0 \\ & k6_numbers (k3_matrix_1 k1_numbers X0 X1 X2)))))) \end{aligned} \quad (11)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0)\Rightarrow(v1_xcmplx_0 X0) \quad (12)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(v1_xreal_0 X0) \quad (13)$$

Theorem 1

$$\forall X0.(v7_ordinal1 X0)\Rightarrow(\forall X1.(m1_matrix_1 X1 k1_numbers \\ X0 X0)\Rightarrow(v4_matrix10 (k1_matrix10 X1)))$$