

t88_matrixr2
(TMJTL98rfW6EfUPnJtueFD9b663wgen6q1h)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k12_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_matrixr2 : \iota \Rightarrow \iota$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k6_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k10_matrixr1 : \iota \Rightarrow \iota$ be given. Let $k8_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $k13_finseq_1 : \iota \Rightarrow \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow (\forall X2.((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 \\ & (k3_finseq_2 k1_numbers)))) \Rightarrow (((X0 = k1_matrix_1 X2) \Rightarrow (k6_matrixr1 \\ & X2 (k4_matrixr2 X0) = X2)) \wedge ((X1 = k3_finseq_1 X2) \Rightarrow (k6_matrixr1 \\ & (k4_matrixr2 X1) X2 = X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k1_numbers) \Rightarrow (\forall X1.((v1_matrix_1 \\ & X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow ((X1 = k10_matrixr1 \\ & X0) \Leftrightarrow ((k8_matrix_1 k1_numbers X1 np_1 = X0) \wedge (k3_finseq_1 X1 = np_1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{3}$$

Assume the following.

$$k5_numbers = k4_ordinal1 \tag{4}$$

Assume the following.

$$\forall X0.k3_finseq_2 X0 = k13_finseq_1 X0 \tag{5}$$

Assume the following.

$$v6_membered\ k4_ordinal1 \quad (6)$$

Assume the following.

$$\neg v1_xboole_0\ k1_numbers \quad (7)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0\ X0)\wedge((v7_ordinal1 \\ X1)\wedge(v7_ordinal1\ X2)))\Rightarrow(\forall X3.(m1_matrix_1\ X3\ X0\ X1\ X2)\Rightarrow \\ ((v1_matrix_1\ X3)\wedge(m2_finseq_1\ X3\ (k3_finseq_2\ X0)))) \end{aligned} \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(m1_matrix_1\ (k4_matrixr2 \\ X0)\ k1_numbers\ X0\ X0) \quad (9)$$

Assume the following.

$$\forall X0.(m1_finseq_1\ X0\ k1_numbers)\Rightarrow((v1_matrix_1\ (k10_matrixr1 \\ X0))\wedge(m2_finseq_1\ (k10_matrixr1\ X0)\ (k3_finseq_2\ k1_numbers))) \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_matrix_1\ X0)\wedge(m2_finseq_1\ X0\ (k3_finseq_2\ k1_numbers)))\Rightarrow \\ (\forall X1.(m2_finseq_1\ X1\ k1_numbers)\Rightarrow(k12_matrixr1\ X0\ X1 = \\ k8_matrix_1\ k1_numbers\ (k6_matrixr1\ (k10_matrixr1\ X1)\ X0)\ np_1)) \end{aligned} \quad (11)$$

Assume the following.

$$\begin{aligned} \forall X0.(m2_finseq_1\ X0\ k1_numbers)\Rightarrow(\forall X1.((v1_matrix_1 \\ X1)\wedge(m2_finseq_1\ X1\ (k3_finseq_2\ k1_numbers)))\Rightarrow((X1 = k10_matrixr1 \\ X0)\Leftrightarrow((k1_matrix_1\ X1 = k3_finseq_1\ X0)\wedge((k3_finseq_1\ X1 = np_1)\wedge \\ (\forall X2.(v7_ordinal1\ X2)\Rightarrow((X2 \in k4_finseq_1\ X0)\Rightarrow(k3_matrix_1 \\ k1_numbers\ X1\ np_1\ X2 = k1_seq_1\ X0\ X2)))))) \end{aligned} \quad (12)$$

Assume the following.

$$\forall X0.(v6_membered\ X0)\Rightarrow(\forall X1.(m1_subset_1\ X1\ X0)\Rightarrow \\ (v7_ordinal1\ X1)) \quad (13)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1\ X0\ k5_numbers)\Rightarrow(\forall X1.(m2_finseq_1 \\ X1\ k1_numbers)\Rightarrow((k3_finseq_1\ X1 = X0)\Rightarrow(k12_matrixr1\ (k4_matrixr2 \\ X0)\ X1 = X1))) \end{aligned}$$