

t90_matrixr2

(TMHaxXeuFCBAoxyTi38VNZWdqKXfjwna621)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v1_matrixr2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k11_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_matrixr2 : \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ & X1 k1_numbers) \Rightarrow (\forall X2.(m2_finseq_1 X2 k1_numbers) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow (((v1_matrixr2 X3 X0) \wedge ((k3_finseq_1 \\ & X1 = X0) \wedge (k3_finseq_1 X2 = X0))) \Rightarrow ((r1_xxreal_0 X0 k6_numbers) \vee \\ & ((k11_matrixr1 X3 X1 = X2) \Leftrightarrow (X1 = k11_matrixr1 (k7_matrixr2 X0 X3) \\ & X2)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k1_numbers) \Rightarrow (\forall X1.((v1_matrix_1 \\ & X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow ((k1_matrix_1 \\ & X1 = k3_finseq_1 X0) \Rightarrow ((r1_xxreal_0 (k3_finseq_1 X0) k6_numbers) \vee \\ & (k3_finseq_1 (k11_matrixr1 X1 X0) = k3_finseq_1 X1)))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\\ & \forall X2.(m1_matrix_1 X2 X1 X0 X0) \Rightarrow ((k3_finseq_1 X2 = X0) \wedge ((k1_matrix_1 \\ & X2 = X0) \wedge (k2_matrix_1 X2 = k2_zfmisc_1 (k2_finseq_1 X0) (k2_finseq_1 \\ & X0)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \tag{4}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$k5_numbers = k4_ordinal1 \quad (6)$$

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.

$$\begin{aligned} \forall X0.\forall X1.((m1_subset_1 \ X0 \ k5_numbers)\wedge(m1_matrix_1 \\ X1 \ k1_numbers \ X0 \ X0))\Rightarrow(m1_matrix_1 \ (k7_matrixr2 \ X0 \ X1) \ k1_numbers \\ X0 \ X0) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((v1_matrix_1 \ X0)\wedge(m1_finseq_1 \ X0 \ (k3_finseq_2 \\ k1_numbers)))\wedge(m1_finseq_1 \ X1 \ k1_numbers))\Rightarrow(m2_finseq_1 \ (k11_matrixr1 \\ X0 \ X1) \ k1_numbers) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1)\Rightarrow(v7_ordinal1 \ X0) \quad (11)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 \ X0 \ k5_numbers)\Rightarrow(\forall X1.(m1_matrix_1 \\ X1 \ k1_numbers \ X0 \ X0)\Rightarrow((v1_matrixr2 \ X1 \ X0)\Rightarrow((r1_xxreal_0 \ X0 \ k6_numbers)\vee \\ (\forall X2.(m2_finseq_1 \ X2 \ k1_numbers)\Rightarrow(\neg(k3_finseq_1 \ X2 = X0)\wedge \\ (\forall X3.(m2_finseq_1 \ X3 \ k1_numbers)\Rightarrow(\neg(k3_finseq_1 \ X3 = X0)\wedge \\ (k11_matrixr1 \ X1 \ X3 = X2)))))))) \end{aligned}$$