

t4_matrixr2

(TMdpqdzxpcRkDGFY396bEta2h6AcN4xBTim)

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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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k6_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. 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 $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_tarski : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_matrix_1 : \iota \Rightarrow \iota$ be given. Let $k3_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k22_rsum_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ 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 $k4_ordinal1 : \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k1_numbers))) \Rightarrow \\
& (\forall X1.((v1_matrix_1 X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow \\
& (\forall X2.((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 (k3_finseq_2 k1_numbers))) \Rightarrow \\
& ((k1_matrix_1 X1 = k3_finseq_1 X2) \Rightarrow ((X0 = k6_matrixr1 X1 X2) \Leftrightarrow ((\\
& \quad k3_finseq_1 X0 = k3_finseq_1 X1) \wedge ((k1_matrix_1 X0 = k1_matrix_1 \\
& \quad X2) \wedge (\forall X3.(m2_subset_1 X3 k1_numbers k5_numbers) \Rightarrow (\forall X4. \\
& (m2_subset_1 X4 k1_numbers k5_numbers) \Rightarrow ((k4_tarski X3 X4 \in k2_matrix_1 \\
& \quad X0) \Rightarrow (k3_matrix_1 k1_numbers X0 X3 X4 = k22_rsum_1 (k8_matrix_1 \\
& \quad k1_numbers X1 X3) (k9_matrix_1 k1_numbers X2 X4))))))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned}
& \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(\neg v1_xboole_0 X1) \Rightarrow (\\
& \forall X2.(m1_matrix_1 X2 X1 X0 X0) \Rightarrow ((k3_finseq_1 X2 = X0) \wedge ((k1_matrix_1 \\
& \quad X2 = X0) \wedge (k2_matrix_1 X2 = k2_zfmisc_1 (k2_finseq_1 X0) (k2_finseq_1 \\
& \quad X0))))))
\end{aligned} \tag{2}$$

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.

$$\neg v1_xboole_0 \ k1_numbers \quad (5)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((\neg v1_xboole_0 \ X0)\wedge((v7_ordinal1 \\ X1)\wedge(v7_ordinal1 \ X2)))\Rightarrow(\forall X3.(m1_matrix_1 \ X3 \ X0 \ X1 \ X2)\Rightarrow \\ ((v1_matrix_1 \ X3)\wedge(m2_finseq_1 \ X3 \ (k3_finseq_2 \ X0)))) \end{aligned} \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(((v1_matrix_1 \ X0)\wedge(m1_finseq_1 \ X0 \ (k3_finseq_2 \\ k1_numbers)))\wedge((v1_matrix_1 \ X1)\wedge(m1_finseq_1 \ X1 \ (k3_finseq_2 \\ k1_numbers))))\Rightarrow((v1_matrix_1 \ (k6_matrixr1 \ X0 \ X1))\wedge(m2_finseq_1 \\ (k6_matrixr1 \ X0 \ X1) \ (k3_finseq_2 \ k1_numbers))) \end{aligned} \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 \ X0 \ k4_ordinal1)\Rightarrow(v7_ordinal1 \ X0) \quad (8)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 \ X0 \ k5_numbers)\Rightarrow(\forall X1.(m1_matrix_1 \\ X1 \ k1_numbers \ X0 \ X0)\Rightarrow(\forall X2.(m1_matrix_1 \ X2 \ k1_numbers \ X0 \\ X0)\Rightarrow(((k3_finseq_1 \ (k6_matrixr1 \ X1 \ X2) = k3_finseq_1 \ X1)\wedge((k1_matrix_1 \\ (k6_matrixr1 \ X1 \ X2) = k1_matrix_1 \ X2)\wedge((k3_finseq_1 \ (k6_matrixr1 \\ X1 \ X2) = X0)\wedge(k1_matrix_1 \ (k6_matrixr1 \ X1 \ X2) = X0)))))) \end{aligned}$$