

t60_matrixc1 (TMLBvATMmfcNqFccmiveGbV- zoDAgRyr9xEN)

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Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_numbers : \iota$ be given. Let $v1_matrix_1 : \iota \Rightarrow o$ be given. Let $k3_finseq_2 : \iota \Rightarrow \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $r1_xxreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k8_complsp2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_matrixc1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_matrixc1 : \iota \Rightarrow \iota$ be given. Let $k15_complex1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ & X1 k2_numbers) \Rightarrow (k8_complsp2 X0 X1 = k15_complex1 (k8_complsp2 \\ & X1 X0))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ & X1 k2_numbers) \Rightarrow (\forall X2.((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 \\ & (k3_finseq_2 k2_numbers))) \Rightarrow (((k3_finseq_1 X0 = k1_matrix_1 X2) \wedge \\ & (k3_finseq_1 X1 = k3_finseq_1 X2)) \Rightarrow ((r1_xxreal_0 (k1_matrix_1 \\ & X2) k6_numbers) \vee ((r1_xxreal_0 (k3_finseq_1 X2) k6_numbers) \vee \\ & (k8_complsp2 (k6_matrixc1 X2 X0) X1 = k8_complsp2 X0 (k6_matrixc1 \\ & (k2_matrixc1 X2) X1))))))) \end{aligned} \tag{2}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1.(((v1_matrix_1 X0) \wedge (m1_finseq_1 X0 (k3_finseq_2 \\ & k2_numbers))) \wedge (m1_finseq_1 X1 k2_numbers)) \Rightarrow (m2_finseq_1 (k6_matrixc1 \\ & X0 X1) k2_numbers) \end{aligned} \tag{4}$$

Assume the following.

$$\begin{aligned} \forall X0.((v1_matrix_1 X0) \wedge (m1_finseq_1 X0 (k3_finseq_2 k2_numbers))) \Rightarrow \\ ((v1_matrix_1 (k2_matrixc1 X0)) \wedge (m2_finseq_1 (k2_matrixc1 X0) \\ (k3_finseq_2 k2_numbers))) \end{aligned} \quad (5)$$

Theorem 1

$$\begin{aligned} \forall X0.(m2_finseq_1 X0 k2_numbers) \Rightarrow (\forall X1.(m2_finseq_1 \\ X1 k2_numbers) \Rightarrow (\forall X2.((v1_matrix_1 X2) \wedge (m2_finseq_1 X2 \\ (k3_finseq_2 k2_numbers))) \Rightarrow (((k3_finseq_1 X0 = k3_finseq_1 X2) \wedge \\ (k3_finseq_1 X1 = k1_matrix_1 X2)) \Rightarrow ((r1_xxreal_0 (k1_matrix_1 \\ X2) k6_numbers) \vee ((r1_xxreal_0 (k3_finseq_1 X2) k6_numbers) \vee \\ (k8_compls2 X0 (k6_matrixc1 X2 X1) = k8_compls2 (k6_matrixc1 \\ (k2_matrixc1 X2) X0) X1)))))) \end{aligned}$$