

t66_matrixr2
(TMQwtV8F5xCavwNj9rCjVf9sCZhCtEiKS63)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $r1_xreal_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k7_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ 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 $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_matrix_1 : \iota \Rightarrow \iota$ be given. Let $m1_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_ordinal1 : \iota$ be given. Let $v6_membered : \iota \Rightarrow o$ be given. Let $v3_membered : \iota \Rightarrow o$ be given. Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1 k5_numbers) \Rightarrow ((\neg r1_xreal_0 X0 k6_numbers) \Rightarrow (k3_matrixr1 (\\ & k8_matrixr1 X0 X1) (k8_matrixr1 X0 X1) = k8_matrixr1 X0 X1))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v1_xreal_0 X0) \Rightarrow (\forall X1.((v1_matrix_1 X1) \wedge (m2_finseq_1 \\ & X1 (k3_finseq_2 k1_numbers))) \Rightarrow (\forall X2.((v1_matrix_1 X2) \wedge \\ & (m2_finseq_1 X2 (k3_finseq_2 k1_numbers))) \Rightarrow (((k3_finseq_1 X1 = \\ & k3_finseq_1 X2) \wedge (k1_matrix_1 X1 = k1_matrix_1 X2)) \Rightarrow (k7_matrixr1 \\ & X0 (k3_matrixr1 X1 X2) = k3_matrixr1 (k7_matrixr1 X0 X1) (k7_matrixr1 \\ & X0 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.((v1_matrix_1 X0) \wedge (m2_finseq_1 X0 (k3_finseq_2 k1_numbers))) \Rightarrow \\ & (\forall X1.((v1_matrix_1 X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow \\ & (((k3_finseq_1 X0 = k3_finseq_1 X1) \wedge ((k1_matrix_1 X0 = k1_matrix_1 \\ & X1) \wedge (X0 = k3_matrixr1 X0 X1))) \Rightarrow (X1 = k8_matrixr1 (k3_finseq_1 X0) \\ & (k1_matrix_1 X0)))))) \end{aligned} \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1.((v1_matrix_1 \\ X1) \wedge (m2_finseq_1 X1 (k3_finseq_2 k1_numbers))) \Rightarrow ((k3_finseq_1 \\ (k7_matrixr1 X0 X1) = k3_finseq_1 X1) \wedge (k1_matrix_1 (k7_matrixr1 \\ X0 X1) = k1_matrix_1 X1))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.(m2_finseq_1 X1 X0) \Leftrightarrow (m1_finseq_1 X1 X0) \quad (5)$$

Assume the following.

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

Assume the following.

$$v6_membered k4_ordinal1 \quad (7)$$

Assume the following.

$$v3_membered k1_numbers \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v7_ordinal1 X0) \wedge (v7_ordinal1 X1)) \Rightarrow (\\ (v1_matrix_1 (k8_matrixr1 X0 X1) \wedge (m2_finseq_1 (k8_matrixr1 \\ X0 X1) (k3_finseq_2 k1_numbers))) \end{aligned} \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.((v1_xreal_0 X0) \wedge ((v1_matrix_1 X1) \wedge (m1_finseq_1 \\ X1 (k3_finseq_2 k1_numbers)))) \Rightarrow ((v1_matrix_1 (k7_matrixr1 X0 \\ X1) \wedge (m2_finseq_1 (k7_matrixr1 X0 X1) (k3_finseq_2 k1_numbers))) \end{aligned} \quad (10)$$

Assume the following.

$$\forall X0.(v6_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v7_ordinal1 X1)) \quad (11)$$

Assume the following.

$$\forall X0.(v3_membered X0) \Rightarrow (\forall X1.(m1_subset_1 X1 X0) \Rightarrow (v1_xreal_0 X1)) \quad (12)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 k5_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ X1 k5_numbers) \Rightarrow (\forall X2.(m1_subset_1 X2 k1_numbers) \Rightarrow ((\neg r1_xreal_0 \\ X0 k6_numbers) \Rightarrow (k7_matrixr1 X2 (k8_matrixr1 X0 X1) = k8_matrixr1 \\ X0 X1)))) \end{aligned}$$