

t78_matrix10

(TMVzK7kHsafGv32YWAVbRy5mGSotCxwrk8u)

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Let $v7_ordinal1 : \iota \Rightarrow o$ be given. Let $m1_matrix_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $v3_matrix10 : \iota \Rightarrow o$ be given. Let $r2_matrix10 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_matrix10 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3_matrix10 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow ((v3_matrix10 \\ & X1) \Rightarrow (r2_matrix10 (k3_matrix10 X0 X1 X2) X2)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow ((r2_matrix10 (k3_matrix10 \\ & X0 X1 X2) X3) \Rightarrow (r2_matrix10 X1 (k4_matrix10 X0 X3 X2)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow ((r2_matrix10 X1 (k4_matrix10 \\ & X0 X2 X3)) \Rightarrow (r2_matrix10 X3 (k4_matrix10 X0 X2 X1)))))) \end{aligned} \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow ((v3_matrix10 \\ & X1) \Rightarrow (r2_matrix10 X2 (k4_matrix10 X0 X2 X1)))) \end{aligned}$$