

t58_matrix10

(TMV7TRt3ndef3zmthD6TzPU9vMLrWDPoZo8)

October 27, 2020

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 $r2_matrix10 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_matrix10 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow (\forall X4.(m1_matrix_1 X4 \\ & k1_numbers X0 X0) \Rightarrow ((r2_matrix10 (k4_matrix10 X0 X1 X2) (k4_matrix10 \\ & X0 X3 X4)) \Rightarrow (r2_matrix10 (k4_matrix10 X0 X4 X2) (k4_matrix10 X0 X3 \\ & X1)))))))) \end{aligned} \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow (\forall X4.(m1_matrix_1 X4 \\ & k1_numbers X0 X0) \Rightarrow ((r2_matrix10 (k4_matrix10 X0 X1 X2) (k4_matrix10 \\ & X0 X3 X4)) \Rightarrow (r2_matrix10 (k4_matrix10 X0 X1 X3) (k4_matrix10 X0 X2 \\ & X4)))))))) \end{aligned} \tag{2}$$

Theorem 1

$$\begin{aligned} & \forall X0.(v7_ordinal1 X0) \Rightarrow (\forall X1.(m1_matrix_1 X1 k1_numbers \\ & X0 X0) \Rightarrow (\forall X2.(m1_matrix_1 X2 k1_numbers X0 X0) \Rightarrow (\forall X3. \\ & (m1_matrix_1 X3 k1_numbers X0 X0) \Rightarrow (\forall X4.(m1_matrix_1 X4 \\ & k1_numbers X0 X0) \Rightarrow ((r2_matrix10 (k4_matrix10 X0 X1 X2) (k4_matrix10 \\ & X0 X3 X4)) \Rightarrow (r2_matrix10 (k4_matrix10 X0 X4 X3) (k4_matrix10 X0 X2 \\ & X1)))))))) \end{aligned}$$