

## t28\_matrixr1

(TMMT3VBDKWzVuQx753J7KUWESV87FqbfPDi)

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Let  $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$  be given. Let  $k1\_numbers : \iota$  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  $k2\_matrix\_1 : \iota \Rightarrow \iota$  be given. Let  $k7\_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$  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  $v1\_xreal\_0 : \iota \Rightarrow o$  be given. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_matrix\_1 X1) \wedge (m2\_finseq\_1 X1 (k3\_finseq\_2 \\ & X0))) \Rightarrow (\forall X2. ((v1\_matrix\_1 X2) \wedge (m2\_finseq\_1 X2 (k3\_finseq\_2 \\ & X0))) \Rightarrow (((k3\_finseq\_1 X1 = k3\_finseq\_1 X2) \wedge (k1\_matrix\_1 X1 = k1\_matrix\_1 \\ & X2)) \Rightarrow (k2\_matrix\_1 X1 = k2\_matrix\_1 X2))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1. ((v1\_matrix\_1 \\ & X1) \wedge (m2\_finseq\_1 X1 (k3\_finseq\_2 k1\_numbers))) \Rightarrow ((k3\_finseq\_1 \\ & (k7\_matrixr1 X0 X1) = k3\_finseq\_1 X1) \wedge (k1\_matrix\_1 (k7\_matrixr1 \\ & X0 X1) = k1\_matrix\_1 X1))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. (m2\_finseq\_1 X1 X0) \Leftrightarrow (m1\_finseq\_1 X1 X0) \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. ((v1\_xreal\_0 X0) \wedge ((v1\_matrix\_1 X1) \wedge (m1\_finseq\_1 \\ & X1 (k3\_finseq\_2 k1\_numbers)))) \Rightarrow ((v1\_matrix\_1 (k7\_matrixr1 X0 \\ & X1)) \wedge (m2\_finseq\_1 (k7\_matrixr1 X0 X1) (k3\_finseq\_2 k1\_numbers))) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0. (m1\_subset\_1 X0 k1\_numbers) \Rightarrow (v1\_xreal\_0 X0) \quad (5)$$

**Theorem 1**

$$\forall X0.(m1\_subset\_1 X0 k1\_numbers) \Rightarrow (\forall X1.((v1\_matrix\_1 X1) \wedge (m2\_finseq\_1 X1 (k3\_finseq\_2 k1\_numbers))) \Rightarrow (k2\_matrix\_1 (k7\_matrixr1 X0 X1) = k2\_matrix\_1 X1))$$