t94_matrixr2 (TMTu9DTd3KXsZdDPVnyQYpKHPmuxvS3i6NW)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5\_numbers : \iota$ be given. Let $m2\_finseq\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $m1\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3\_finseq\_1 : \iota \Rightarrow \iota$ be given. Let $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $k11\_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1\_matrix\_1 : \iota \Rightarrow o$ be given. Let $k3\_finseq\_2 : \iota \Rightarrow \iota$ be given. Let $k1\_matrix\_1 : \iota \Rightarrow \iota$ be given. Let $k4\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_matrixr1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_ordinal1 : \iota$ be given. Let $v7\_ordinal1 : \iota \Rightarrow o$ be given. Let $v1\_xboole\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m2\_finseq\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.((v1\_matrix\_1\ X1) \wedge (m2\_finseq\_1\ X1\ (k3\_finseq\_2\ k1\_numbers))) \Rightarrow (\neg(\neg r1\_xxreal\_0\ (k3\_finseq\_1\ X1)\ k6\_numbers) \wedge ((\neg r1\_xxreal\_0\ (k1\_matrix\_1\ X1)\ k6\_numbers) \wedge (((k3\_finseq\_1\ X1 = k3\_finseq\_1\ X0) \vee (k1\_matrix\_1\ (k4\_matrix\_1\ k1\_numbers\ X1) = k3\_finseq\_1\ X0)) \wedge (k11\_matrixr1\ (k4\_matrix\_1\ k1\_numbers\ X1)\ X0 \neq k12\_matrixr1\ X1\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers) \Rightarrow (\forall X1.(m1\_matrix\_1\ X1\ k1\_numbers\ X0\ X0) \Rightarrow (\forall X2.(m1\_matrix\_1\ X2\ k1\_numbers\ X0\ X0) \Rightarrow ((k3\_finseq\_1\ (k6\_matrixr1\ X1\ X2) = k3\_finseq\_1\ X1) \wedge ((k1\_matrix\_1\ (k6\_matrixr1\ X1\ X2) = k1\_matrix\_1\ X2) \wedge ((k3\_finseq\_1\ (k6\_matrixr1\ X1\ X2) = X0) \wedge (k1\_matrix\_1\ (k6\_matrixr1\ X1\ X2) = X0)))))) \tag{2}$$

Assume the following.

$$k5\_numbers = k4\_ordinal1 \tag{3}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((v7\_ordinal1\ X0) \wedge ((\neg v1\_xboole\_0\ X1) \wedge (m1\_matrix\_1\ X2\ X1\ X0\ X0))) \Rightarrow (k5\_matrix\_1\ X0\ X1\ X2 = k4\_matrix\_1\ X1\ X2) \tag{4}$$

Assume the following.

$$\neg v1\_xboole\_0\ k1\_numbers \tag{5}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.((\neg v1\_xboole\_0\ X0)\wedge((v7\_ordinal1\ X1)\wedge(v7\_ordinal1\ X2)))\Rightarrow(\forall X3.(m1\_matrix\_1\ X3\ X0\ X1\ X2)\Rightarrow((v1\_matrix\_1\ X3)\wedge(m2\_finseq\_1\ X3\ (k3\_finseq\_2\ X0)))) \tag{6}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k4\_ordinal1)\Rightarrow(v7\_ordinal1\ X0) \tag{7}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ k5\_numbers)\Rightarrow(\forall X1.(m2\_finseq\_1\ X1\ k1\_numbers)\Rightarrow(\forall X2.(m1\_matrix\_1\ X2\ k1\_numbers\ X0\ X0)\Rightarrow((k3\_finseq\_1\ X1 = X0)\Rightarrow((r1\_xxreal\_0\ X0\ k6\_numbers)\vee(k11\_matrixr1\ (k5\_matrix\_1\ X0\ k1\_numbers\ X2)\ X1 = k12\_matrixr1\ X2\ X1)))))$$