t12_matrix_2 (TMcypnvwqtfJ58qcAorhUPYgWGVjmtzbGgo)

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Let $v1\_xboole\_0 : \iota \Rightarrow o$ 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 $r1\_xxreal\_0 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_matrix\_1 : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k4\_matrix\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Assume the following.

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_matrix\_1\ X1) \wedge (m2\_finseq\_1\ X1\ (k3\_finseq\_2\ X0))) \Rightarrow (\forall X2.((v1\_matrix\_1\ X2) \wedge (m2\_finseq\_1\ X2\ (k3\_finseq\_2\ X0))) \Rightarrow ((k4\_matrix\_1\ X0\ X1 = k4\_matrix\_1\ X0\ X2) \Rightarrow ((r1\_xxreal\_0\ (k1\_matrix\_1\ X1)\ k6\_numbers) \vee ((r1\_xxreal\_0\ (k1\_matrix\_1\ X2)\ k6\_numbers) \vee (X1 = X2)))))) \tag{1}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{2}$$

Theorem 1

$$\forall X0.(\neg v1\_xboole\_0\ X0) \Rightarrow (\forall X1.((v1\_matrix\_1\ X1) \wedge (m2\_finseq\_1\ X1\ (k3\_finseq\_2\ X0))) \Rightarrow (\forall X2.((v1\_matrix\_1\ X2) \wedge (m2\_finseq\_1\ X2\ (k3\_finseq\_2\ X0))) \Rightarrow (\neg(\neg r1\_xxreal\_0\ (k1\_matrix\_1\ X1)\ k6\_numbers) \wedge ((\neg r1\_xxreal\_0\ (k1\_matrix\_1\ X2)\ k6\_numbers) \wedge (\neg(X1 = X2) \Leftrightarrow ((k4\_matrix\_1\ X0\ X1 = k4\_matrix\_1\ X0\ X2) \wedge (k1\_matrix\_1\ X1 = k1\_matrix\_1\ X2))))))))$$