

Matrices on the Graphing Calculator

TI-83 / TI-84

matrix menu:

$\boxed{2nd}$ MATRIX

to enter a matrix:

$\boxed{2nd}$ MATRIX $\boxed{\blacktriangleright}$ $\boxed{\blacktriangleright}$ EDIT
(select matrix name)

edit dimensions

edit entries

* $\boxed{2nd}$ QUIT *

basic operations:

$[A] + [B]$

$[A][B]$

Some dimensions
 2×3 3×3

determinant:

\hookrightarrow square matrix only

\hookrightarrow square matrix only

inverse matrix:

\hookrightarrow square matrix only

\hookrightarrow non-zero determinant

to solve a system:

TI-Nspire

from home menu, add a calculator page

to create a matrix:

[MENU] 7: Matrix & Vector / 1: Create
OR

use the button that looks like ...



to store a matrix:

create a matrix
[CTRL] sto \rightarrow (select a name for the matrix)

basic operations:

keys

use the names for the matrices and operation

determinant:

[MENU] 7: Matrix & Vector / 3: Determinant
OR

type det((name the matrix)

inverse matrix:

(name the matrix) $\boxed{\nabla}$ -1 \boxed{ENTER}

to solve a system:

write matrix equation by hand
enter on calculator $[A]^{-1} \cdot [B]$ \boxed{ENTER}