Matrices on the Graphing Calculator

TI–83 / TI–84

matrix menu: ⌷2nd⌷ MATRIX

to enter a matrix: ⌷2nd⌷ MATRIX ▶▶ EDIT
(select matrix name)
edit dimensions
edit entries
* ⌷2nd⌷ QUIT *

basic operations: ⌷2nd⌷ MATRIX NAME:
(name the matrix)
use operation keys on calculator

determinant: ⌷2nd⌷ MATRIX ▶ MATH
select 1: det
⌷2nd⌷ MATRIX NAME:
(name the matrix)

inverse matrix: ⌷2nd⌷ MATRIX NAME:
(name the matrix)
x^{-1}
⌷MATH⌷ 1: ▶ FRAC ⌷ENTER⌷ ⌷ENTER⌷
to change entries to fractions)

to solve a system: write matrix equation by hand
enter matrix [A] and matrix [B]
enter on calculator $[A]^{-1} \cdot [B]$ ⌷ENTER⌷

TI-Nspire

matrix menu: (no entry) 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→ (select a name for the matrix)

basic operations: use the names for the matrices and operation
keys

determinant: [MENU] 7: Matrix & Vector / 3: Determinant
OR
type det(
(name the matrix)

inverse matrix: (name the matrix) ⌷^⌷ −1 ⌷ENTER⌷

to solve a system: write matrix equation by hand
enter on calculator $[A]^{-1} \cdot [B]$ ⌷ENTER⌷