

The page features two large, thick black L-shaped brackets. One is positioned in the top-left corner, and the other is in the bottom-right corner, framing the central text.

DETERMINANTS

Section 3.1

EXAMPLE

Compute the determinant of each matrix:

$$(a) A = \begin{bmatrix} 2 & -3 \\ 1 & 2 \end{bmatrix} \quad (b) B = \begin{bmatrix} 2 & 1 \\ 4 & 2 \end{bmatrix}$$

$$(c) C = \begin{bmatrix} 0 & 3 \\ 2 & 4 \end{bmatrix}$$

DEFINITION

If $A = [a]$ is a
 1×1 matrix,

we define $\det A = a$.

EXAMPLE

Find all minors and cofactors
of the first row of

$$A = \begin{bmatrix} 0 & 2 & 1 \\ 3 & -1 & 2 \\ 4 & 0 & 1 \end{bmatrix}.$$