

Solutions

Each answer shows the steps, then the **result**.

2.1

- $ad - bc$

2.2

- when its determinant is non-zero

2.3

- $3(4) - 2(1) = 12 - 2 = 10$

3.1 B

3.2 B

3.3

(a)

- $2(3) - 0 = 6$

(b)

- yes, since $\det = 6 \neq 0$

(c)

- $\begin{bmatrix} 1/2 & 0 \\ 0 & 1/3 \end{bmatrix}$