Exercises

Find $\det(A)$ if $A = \begin{bmatrix} 3 & 5 \\ -2 & -4 \end{bmatrix}$.

Exercises

Find $\det(B)$ if $B = \begin{bmatrix} 2 & -4 \\ 1 & 7 \end{bmatrix}$.

Exercises

Find $|C|$ if $C = \begin{bmatrix} 1 & -2 & -4 \\ 2 & -3 & -6 \\ -3 & 6 & 15 \end{bmatrix}$.

Exercises

Find $|D|$ if $D = \begin{bmatrix} 1 & 3 & -4 \\ -2 & 1 & 2 \\ -9 & 15 & 0 \end{bmatrix}$.

Exercises

Find $|E|$ if $E = \begin{bmatrix} 2 & 0 & 3 \\ 1 & 4 & -2 \\ 5 & 0 & -3 \end{bmatrix}$.

Exercises

Find $|F|$ if $F = \begin{bmatrix} 3 & 0 & -2 & 4 \\ 1 & 3 & 1 & 2 \\ 2 & 1 & 1 & -1 \\ 4 & 0 & 0 & -1 \end{bmatrix}$.

Exercises

Find the inverse of $C = \begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix}$.

Exercises

Solve the following system of equations by Cramer's Rule:

$$x_1 + 2x_2 = 4$$
$$3x_1 + 4x_2 = 6$$

Exercises

Use Cramer's Rule to solve the following system for x_1 without solving for the remaining variables.

$$2x_1 - x_2 + x_3 = 3$$
$$x_1 + x_2 - x_3 = 0$$
$$x_1 - x_2 + 2x_3 = 5$$