Find the inverse of

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

For the system -7x + 7y = 7 and -9x + 8y = 13, use Cramer's rule to solve the system. Write (x, y).

Find the inverse of

$$\begin{bmatrix} 1 & -2 \\ 3 & -5 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & -3 \\ 4 & -4 \end{bmatrix}$$

Find the inverse of

$$\begin{bmatrix} 2 & 7 \\ -3 & -10 \end{bmatrix}$$

For the system -7x + 3y = -37 and -8x - 2y = -26, use Cramer's rule to solve the system. Write (x, y).

Find the inverse of

$$\begin{bmatrix} -4 & 3 \\ -7 & 5 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & 7 \\ -3 & 1 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 2

ANSWER

$(-5, -4)$

Inverse Matrices & Cramer's Rule · 1

ANSWER

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

Inverse Matrices & Cramer's Rule · 4

ANSWER

$k = 3$

Inverse Matrices & Cramer's Rule · 3

ANSWER

$$\begin{bmatrix} -5 & 2 \\ -3 & 1 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 6

ANSWER

$(4, -3)$

Inverse Matrices & Cramer's Rule · 5

ANSWER

$$\begin{bmatrix} -10 & -7 \\ 3 & 2 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 8

ANSWER

$k = -21$

Inverse Matrices & Cramer's Rule · 7

ANSWER

$$\begin{bmatrix} 5 & -3 \\ 7 & -4 \end{bmatrix}$$

Find the inverse of

$$\begin{bmatrix} 4 & 7 \\ 1 & 2 \end{bmatrix}$$

For the system -8x + y = 12 and -x - 3y = 14, use Cramer's rule to find y.

Find the inverse of

$$\begin{bmatrix} -7 & 2 \\ 3 & -1 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & 6 \\ -7 & 3 \end{bmatrix}$$

Find the inverse of

$$\begin{bmatrix} -3 & -2 \\ -5 & -3 \end{bmatrix}$$

For the system -8x - 3y = 20 and 8x - y = -4, use Cramer's rule to find y.

Find the inverse of

$$\begin{bmatrix} 9 & -8 \\ 8 & -7 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & -9 \\ 9 & 3 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 10

ANSWER

$$y = -4$$

Inverse Matrices & Cramer's Rule · 9

ANSWER

$$\begin{bmatrix} 2 & -7 \\ -1 & 4 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 12

ANSWER

$$k = -14$$

Inverse Matrices & Cramer's Rule · 11

ANSWER

$$\begin{bmatrix} -1 & -2 \\ -3 & -7 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 14

ANSWER

$$y = -4$$

Inverse Matrices & Cramer's Rule · 13

ANSWER

$$\begin{bmatrix} 3 & -2 \\ -5 & 3 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 16

ANSWER

$$k = -27$$

Inverse Matrices & Cramer's Rule · 15

ANSWER

$$\begin{bmatrix} -7 & 8 \\ -8 & 9 \end{bmatrix}$$

Find the inverse of

$$\begin{bmatrix} 2 & 9 \\ -1 & -5 \end{bmatrix}$$

For the system $3x - 2y = 18$ and $3x + 3y = -12$, use Cramer's rule to find x.

Find the inverse of

$$\begin{bmatrix} 6 & 5 \\ 7 & 6 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & 6 \\ -3 & -9 \end{bmatrix}$$

Find the inverse of

$$\begin{bmatrix} -1 & 4 \\ -1 & 3 \end{bmatrix}$$

For the system $x - 8y = 44$ and $-5x - 5y = 5$, use Cramer's rule to solve the system. Write (x, y).

Find the inverse of

$$\begin{bmatrix} 3 & -5 \\ 1 & -2 \end{bmatrix}$$

Find k so that

$$\begin{bmatrix} k & -3 \\ 3 & -9 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 18

ANSWER

$$x = 2$$

Inverse Matrices & Cramer's Rule · 17

ANSWER

$$\begin{bmatrix} 5 & 9 \\ -1 & -2 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 20

ANSWER

$$k = 2$$

Inverse Matrices & Cramer's Rule · 19

ANSWER

$$\begin{bmatrix} 6 & -5 \\ -7 & 6 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 22

ANSWER

$$(4, -5)$$

Inverse Matrices & Cramer's Rule · 21

ANSWER

$$\begin{bmatrix} 3 & -4 \\ 1 & -1 \end{bmatrix}$$

Inverse Matrices & Cramer's Rule · 24

ANSWER

$$k = 1$$

Inverse Matrices & Cramer's Rule · 23

ANSWER

$$\begin{bmatrix} 2 & -5 \\ 1 & -3 \end{bmatrix}$$