

1 Which of these is a solution to the system of equations?

$$\begin{cases} x + y = 3 \\ x - y = 9 \end{cases}$$

- A (6, 3)
- B (6, -3)
- C (-6, 3)
- D (-6, -3)
- E Help!



Oct 25-4:04 PM

2 Which of these is a solution to the system of equations?

$$\begin{cases} x + y = 2 \\ x - y = 8 \end{cases}$$

- A (5, 3)
- B (-5, 3)
- C (5, -3)
- D (-5, -3)
- E Help!



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3 Which of these is a solution to the system of equations?

$$\begin{cases} 3x = 19 - y \\ 2x = 22 - 3y \end{cases}$$

(Handwritten blue arrows: '5' points to the coefficient 3 in the first equation and the constant 19; '4' points to the coefficient -1 in the first equation and the constant 22 in the second equation.)

- A (5, 4)
- B (5, -4)
- C (-5, 4)
- D (-5, -4)
- E Help!



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4 Which of these is a solution to the system of equations?

$$\begin{cases} -3x = 22 - y \\ x - 5y = 2 \end{cases}$$

(Handwritten blue arrows: '-8' points to the coefficient -3 in the first equation and the constant 22; '-2' points to the coefficient -1 in the first equation and the constant 2 in the second equation.)

$$\begin{aligned} -3(-8) &= 22 - (-2)? \\ 24 &= 22 + 2 \end{aligned}$$

$$\begin{aligned} -8 - 5(-2) &= 2? \\ -8 - (-10) &= 2? \\ -8 + 10 &= 2 \text{ Yes} \end{aligned}$$

- A (8, 2)
- B (8, -2)
- C (-8, 2)
- D (-8, -2)
- E Help!

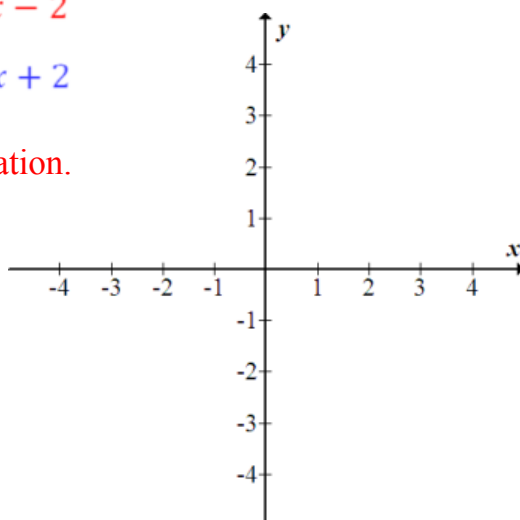


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Now we will "solve by graphing"
(estimate a solution).

System:
$$\begin{cases} y = 2x - 2 \\ y = \frac{2}{3}x + 2 \end{cases}$$

Graph the first equation.

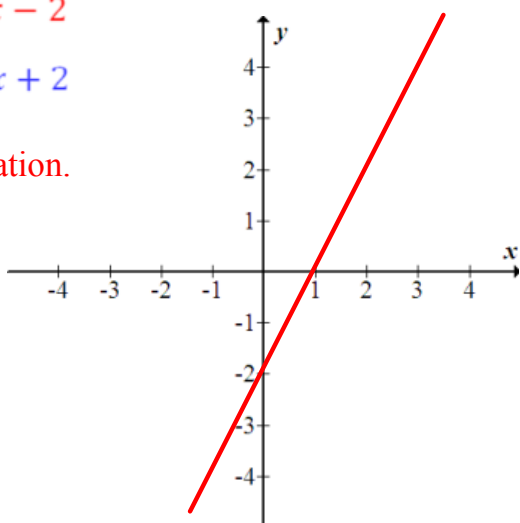


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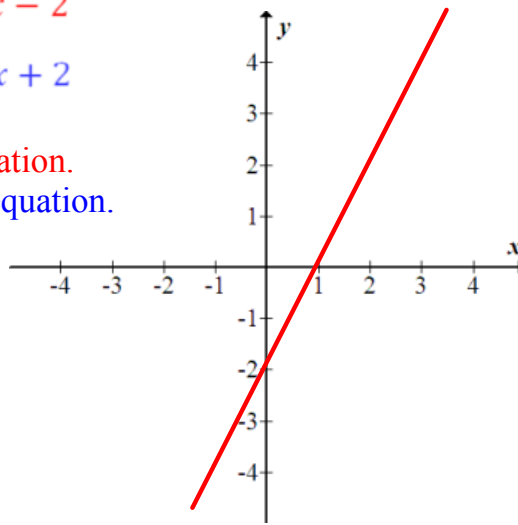


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Now we will "solve by graphing"
(estimate a solution).

System:
$$\begin{cases} y = 2x - 2 \\ y = \frac{2}{3}x + 2 \end{cases}$$

Graph the first equation.
Graph the second equation.

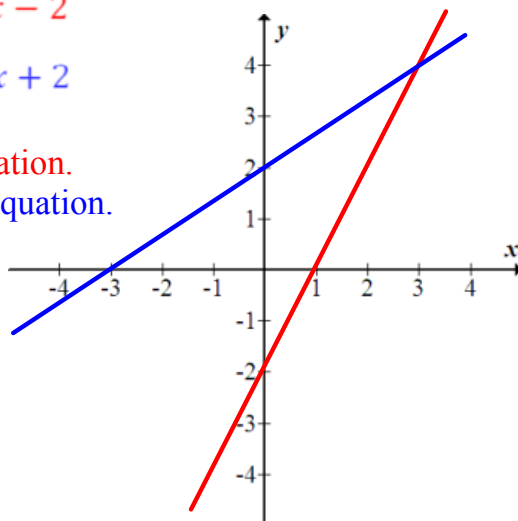


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Now we will "solve by graphing"
(estimate a solution).

System:
$$\begin{cases} y = 2x - 2 \\ y = \frac{2}{3}x + 2 \end{cases}$$

Graph the first equation.
Graph the second equation.



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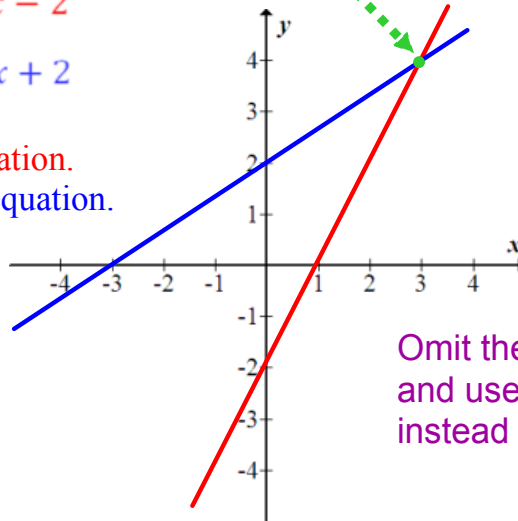
5 Estimate the coordinates of the point of intersection.

Now we will "solve by graphing" (estimate a solution).

System:
$$\begin{cases} y = 2x - 2 \\ y = \frac{2}{3}x + 2 \end{cases}$$

Graph the first equation.

Graph the second equation.



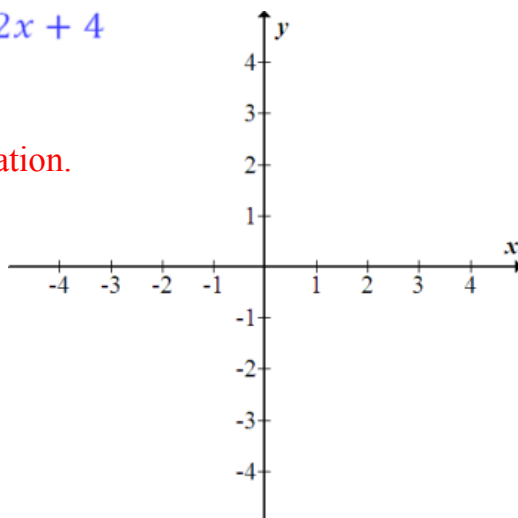
Omit the parentheses, and use a decimal point instead of a comma.

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Let's try another.

System:
$$\begin{cases} y = x + 1 \\ y = -2x + 4 \end{cases}$$

Graph the first equation.

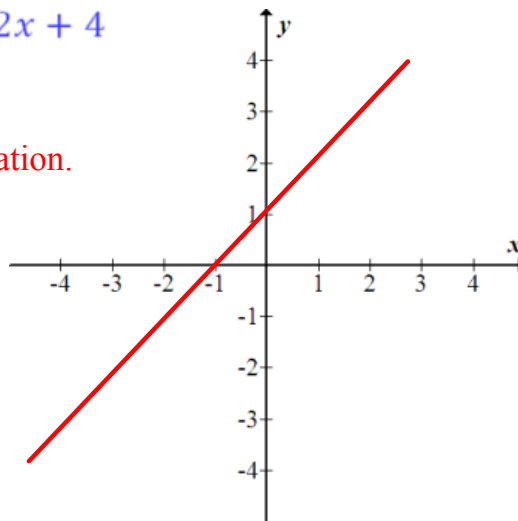


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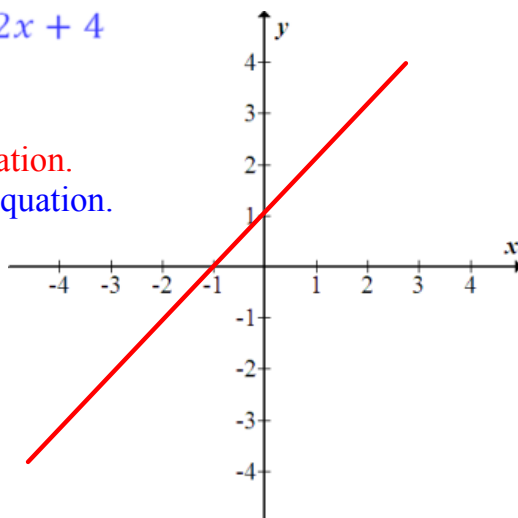
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Let's try another.

System: $\begin{cases} y = x + 1 \\ y = -2x + 4 \end{cases}$

Graph the first equation.

Graph the second equation.

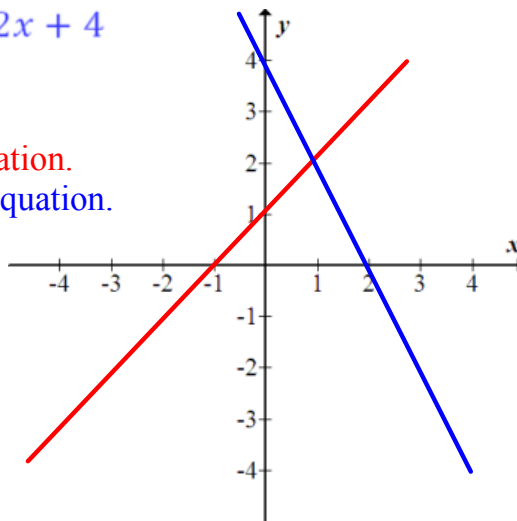


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Let's try another.

System: $\begin{cases} y = x + 1 \\ y = -2x + 4 \end{cases}$

Graph the first equation.
Graph the second equation.



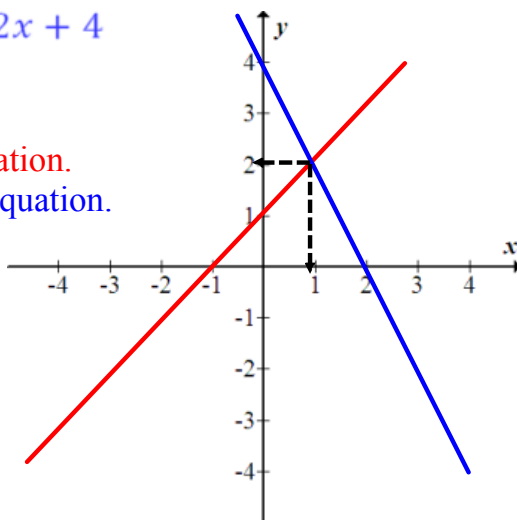
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6 Estimate the coordinates of the point of intersection.

Let's try another.

System: $\begin{cases} y = x + 1 \\ y = -2x + 4 \end{cases}$

Graph the first equation.
Graph the second equation.



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- 7 Without graphing, decide which of the choices is true of the system.

$$\begin{cases} y - 2x = 3 \longrightarrow y = 2x + 3 \\ 3y = 6x + 9 \\ \frac{1}{3}(3y) = \frac{1}{3}(6x + 9) \end{cases}$$

- A Lines intersect in a single point.
 B Lines coincide; infinite number of solutions.
 C Parallel lines; no solution for the system.
 D HELP!



Oct 26-7:00 PM

- 8 Without graphing, decide which of the choices is true of the system.

$$\begin{cases} 2x - y = 1 \longrightarrow y = 2x - 1 \\ x + 6y = 33 \longrightarrow y = -\frac{1}{6}x + \text{something} \end{cases}$$

- A Lines intersect in a single point.
 B Lines coincide; infinite number of solutions.
 C Parallel lines; no solution for the system.
 D HELP!



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9 Without graphing, decide which of the choices is true of the system.

$$\begin{cases} x = -y \\ x + y = 3 \end{cases}$$

- A Lines intersect in a single point.
- B Lines coincide; infinite number of solutions.
- C Parallel lines; no solution for the system.
- D HELP!

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10 Without graphing, decide which of the choices is true of the system.

$$\begin{cases} x + 2y = 6 \\ y = -\frac{1}{2}x + 3 \end{cases}$$

- A Lines intersect in a single point.
- B Lines coincide; infinite number of solutions.
- C Parallel lines; no solution for the system.
- D HELP!

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