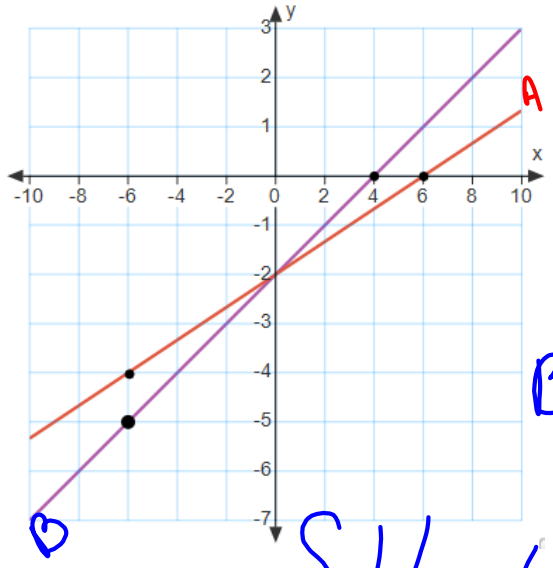
Do Now



Write the system of equations & then find the solution

$m = \frac{4}{12} = \frac{1}{3}$

$b = -2$ $y = \frac{1}{3}x - 2$

B $m = \frac{5}{10} = \frac{1}{2}$

$b = -2$ $y = \frac{1}{2}x - 2$

Solution $(0, -2)$

Nov 27-11:30 AM

Homework Answers

6) Yes

7) No

8) Yes

9) No

10) Yes

Nov 28-8:10 AM

Finding the solution to a system of equations by Graphing

Step 1: Graph the equations on the same axes

Use Slope-intercept method (y = *m*x + b)

Step 2: Solution is the point where the lines intersect OR infinite or no solution

Step 3: Check the point in BOTH original equations

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Find the solution to the system of equations.
Check your answer.

$$y = -x - 2$$

$$y = \frac{2}{3}x + 3$$

$y = -x - 2$ $y = \frac{2}{3}x + 3$

$m = \frac{-1}{1}$ $m = \frac{2}{3}$

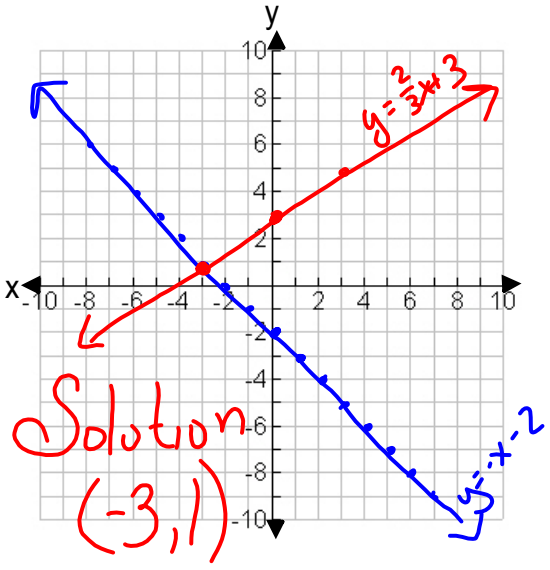
$b = -2$ $b = 3$

$y = -x - 2$ $y = \frac{2}{3}x + 3$

$1 = -(-3) - 2$ $1 = \frac{2}{3}(-3) + 3$

$1 = 3 - 2$ $1 = -2 + 3$

$1 = 1$ ✓ $1 = 1$ ✓



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Find the solution to the system of equations.
Check your answer.

$y = 3x - 8$

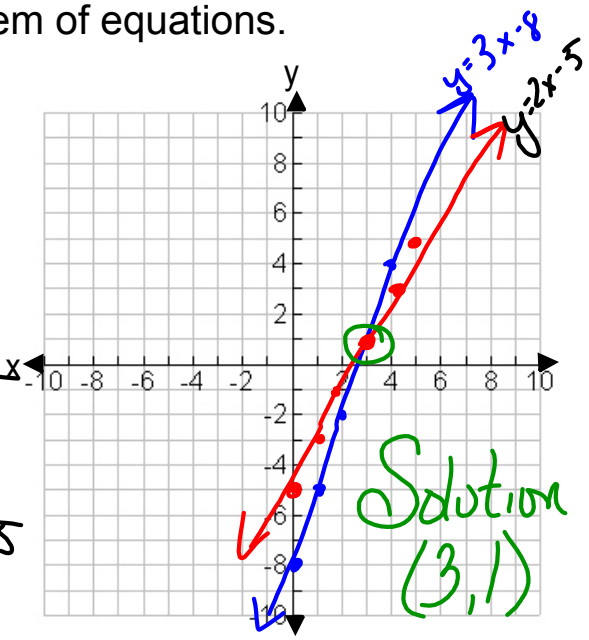
$y = 2x - 5$

$m = \frac{3}{1}$ $b = -8$

$m = \frac{2}{1}$ $b = -5$

$y = 3x - 8$
$1 = 3(3) - 8$
$1 = 9 - 8$
$1 = 1$ ✓

$y = 2x - 5$
$1 = 2(3) - 5$
$1 = 6 - 5$
$1 = 1$ ✓



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Find the solution to the system of equations.
Check your answer.

-x = 6 - 3y
3y = x - 3

$\frac{3y}{3} = \frac{x}{3} - \frac{3}{3}$

$y = \frac{1}{3}x - 1$

$m = \frac{1}{3}$ $b = -1$

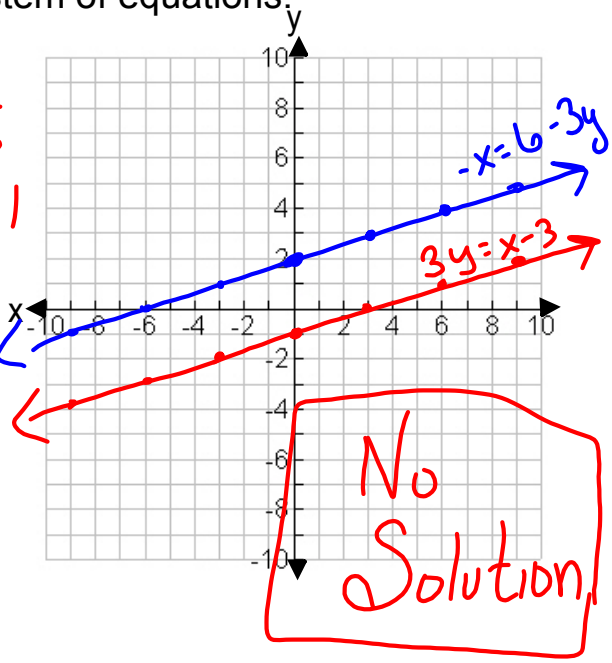
$-x = 6 - 3y$
$-6 \quad -6$

$-x - 6 = -3y$
$-3 \quad -3 \quad -3$

$\frac{1}{3}x + 2 = y$

$m = \frac{1}{3}$

$b = 2$



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