

Notes 10-4

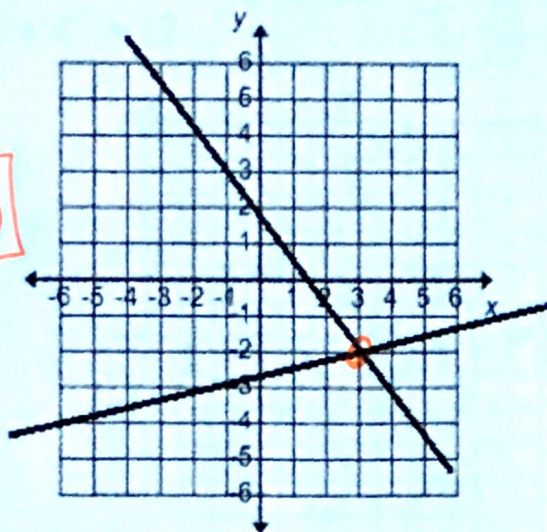
Int 2

More Solving Systems by Graphing

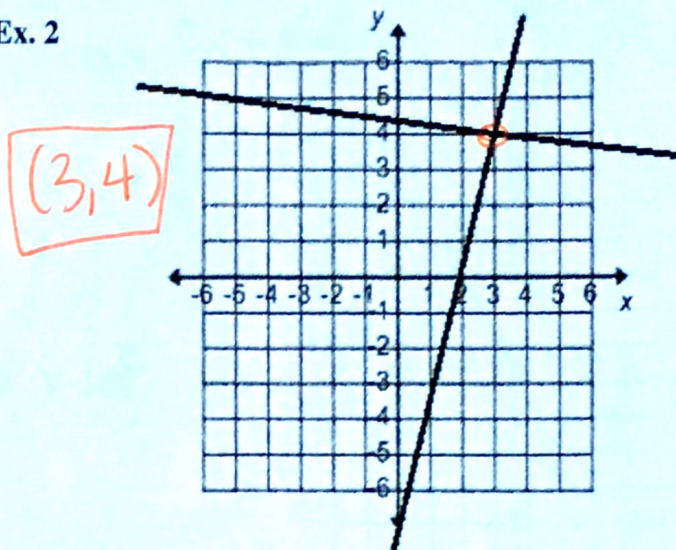
Unit 10

Identify the solution to the graphed system of equations

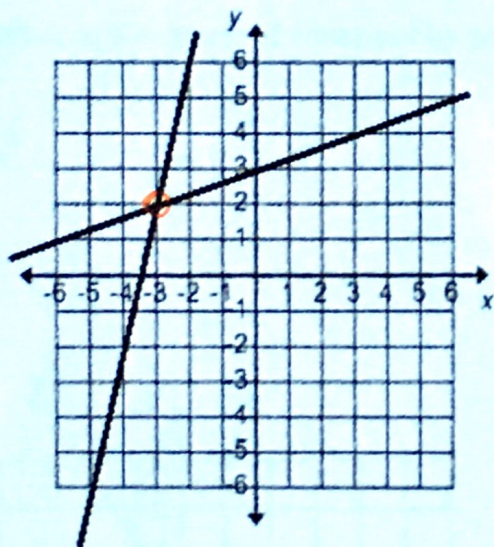
Ex. 1



Ex. 2



Ex. 3



How many solutions will this system of equations have? Explain how you know

Ex. 4

$$y = \frac{2}{5}x + 16$$

$$y = \frac{2}{5}x - 22$$

parallel lines

NO solution

Ex. 5

$$y = -\frac{3}{7}x + 1$$

$$y = \frac{4}{9}x - 27$$

Slopes are different

so, 1 solution

Ex. 6

$$y = \frac{3}{7}x$$

$$3y = 26x$$

$$y = \frac{26}{3}x$$

Slopes are different

so, 1 solution

Ex. 7

$$y = -\frac{5}{4}x + 4$$

$$5x + 4y = 16$$

$$\begin{array}{r} 5x + 4y = 16 \\ -5x = -16 \\ \hline 4y = 0 \end{array}$$

$$y = -\frac{5}{4}x + 4$$

$$y = -\frac{5}{4}x + 4$$

∞ SOLUTIONS

because they are the same line

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Review: Find the x- and y-intercepts of the equations below and graph

Ex. 8 $-2x + 4y = 12$

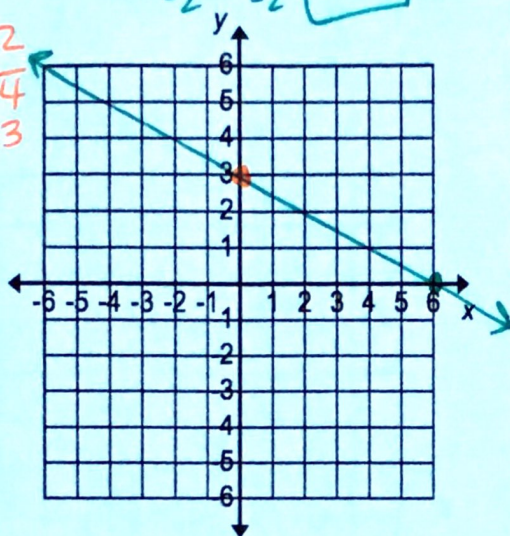
$-2x = 12$
 $\frac{-2x}{-2} = \frac{12}{-2}$
 $x = 6$

x-int:

$(6, 0)$

y-int:

$(0, 3)$



Ex. 9 $2x + y = -2$

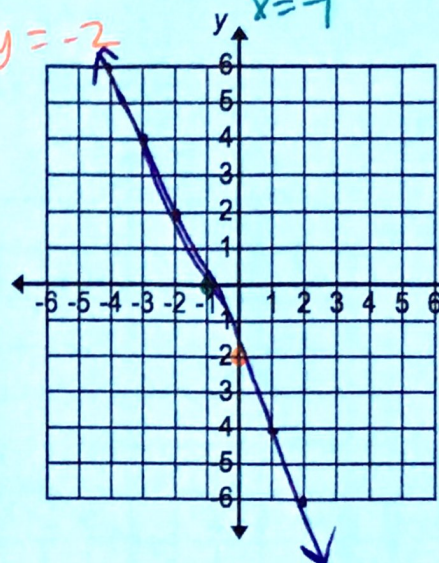
$2x = -2$
 $\frac{2x}{2} = \frac{-2}{2}$
 $x = -1$

x-int:

$(-1, 0)$

y-int:

$(0, -2)$



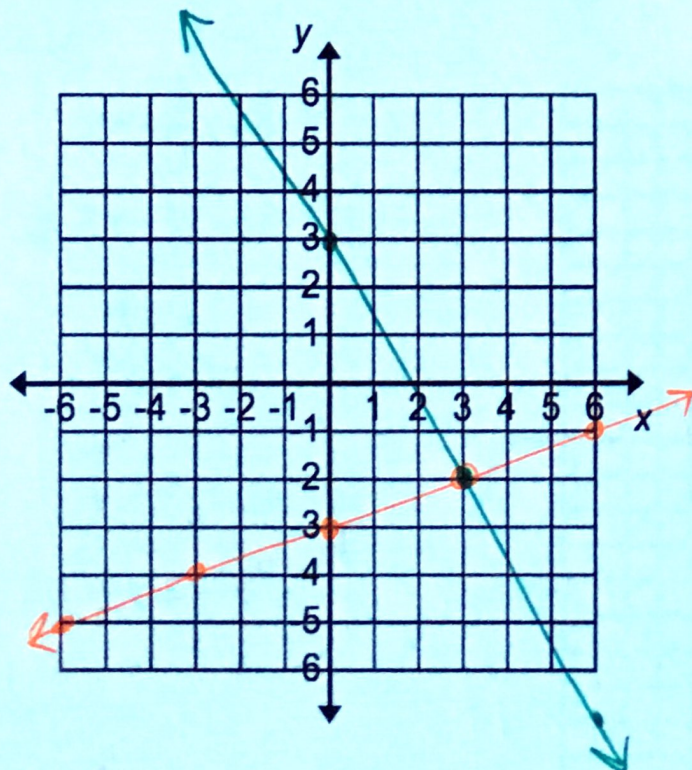
Find the solution to the system of equations by graphing. Remember you can check your solutions!

Ex. 10

$y = -\frac{5}{3}x + 3$

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

$(3, -2)$



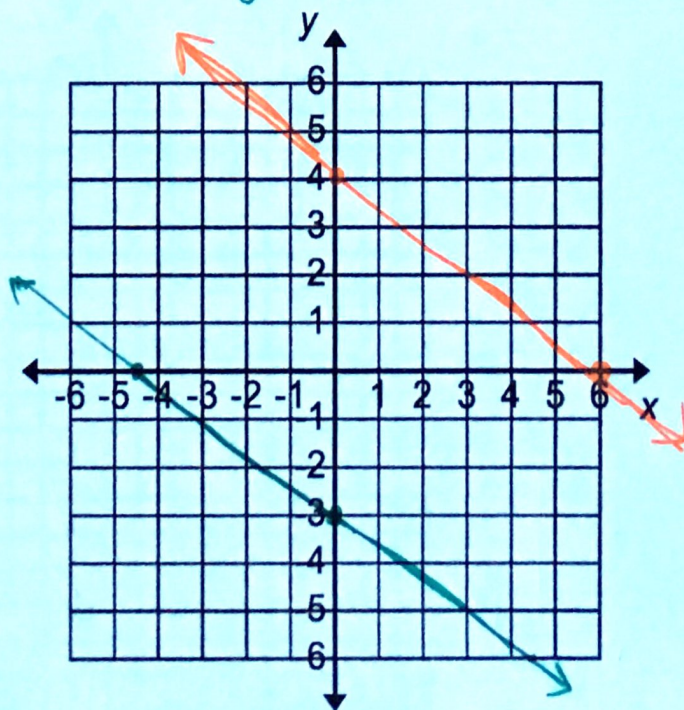
Ex. 11

$2x + 3y = 12$

$3y + 2x = -9$

$x = -4.5$
 $y = -3$

NO SOLUTION



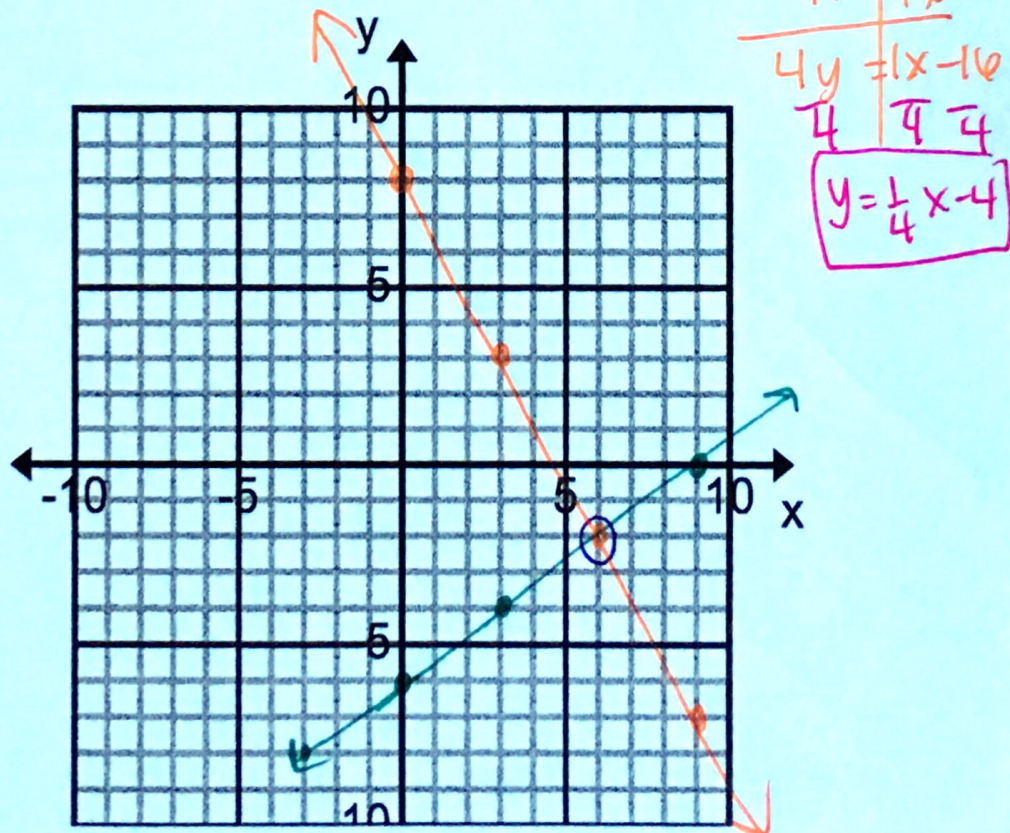
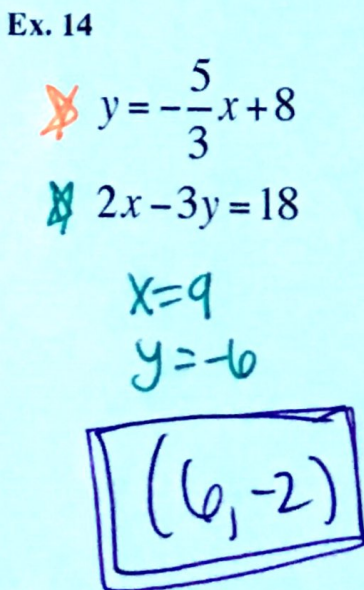
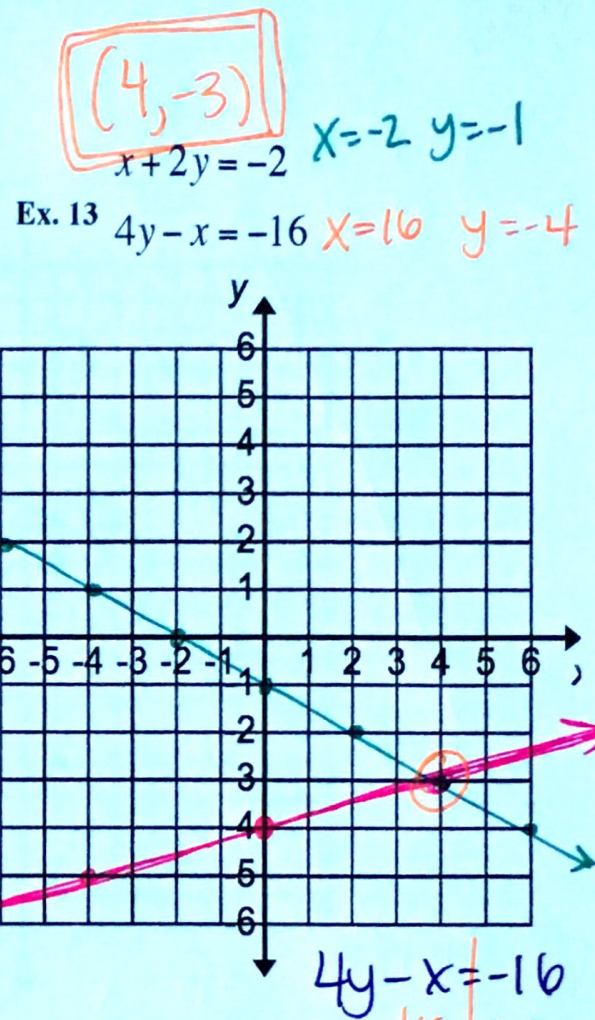
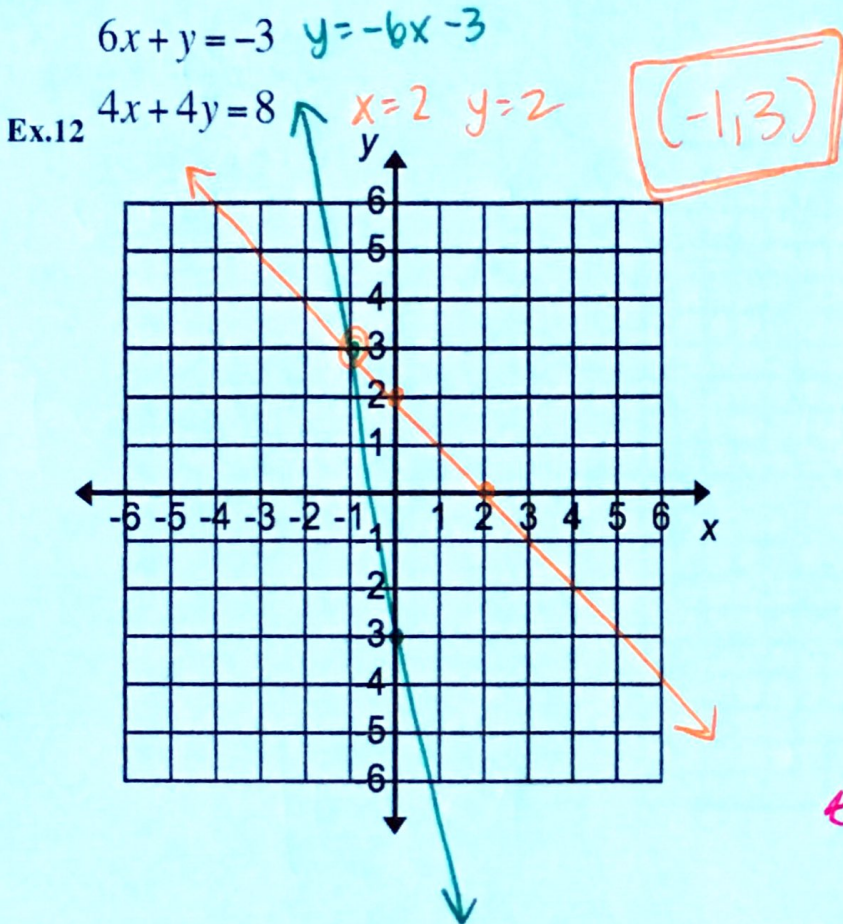
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Int 2

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Unit 10

Solve the system of equations by graphing



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Int 2

More Solving Systems by Graphing

Unit 10

Ex. 15

$$y = -\frac{4}{7}x + 3$$

$$x - 2y = 2$$

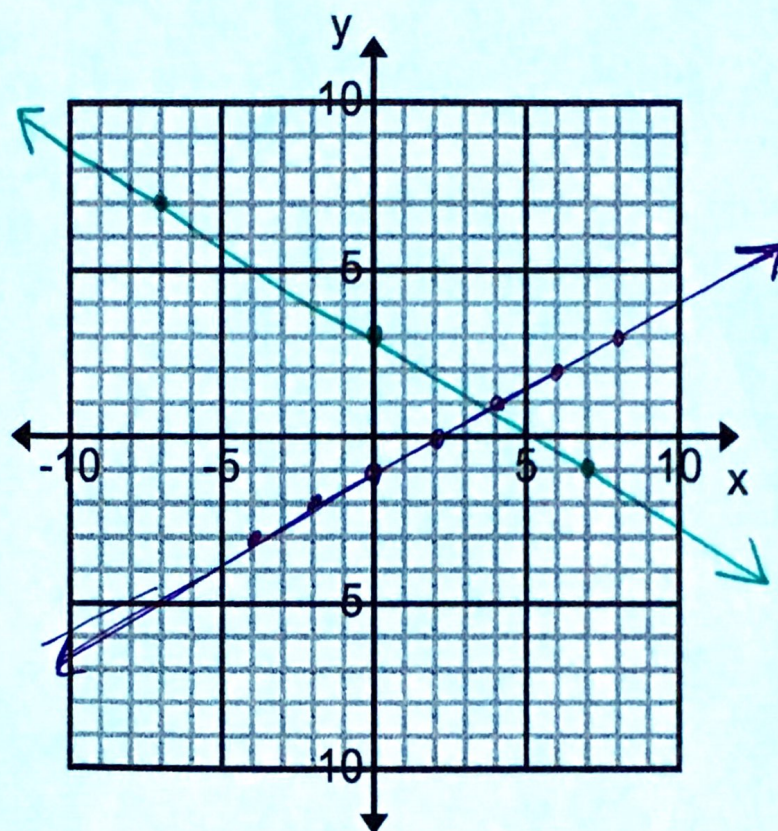
-x

-x

$$-2y = -x + 2$$

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

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



Crosses @
about

$$(3.9, .9)$$