

Name: \_\_\_\_\_  
Date: \_\_\_\_\_ Per: \_\_\_\_\_

Quiz Practice Problems

Find the solution for the system:

System:	Line Type: $y = a + bx$ or $Ax + By = C$	A	B	C	Slope: $\frac{-A}{B}$ or $b$	y-int.: $\frac{C}{B}$ or $a$	Plot 1 <sup>st</sup> the y-int. (0, y-int)
$y = 1 + x$ $y = -7 + 3x$	$y = x + 1$	////////	/////	/////	$b = +1$ or $\frac{1}{1}$	$a = +1$	(0, 1)
	$y = -7 + 3x$	////////	/////	/////	$b = +3$ or $\frac{3}{1}$	$a = -7$	(0, -7)

- Graph:
- 1.) Plot the y-intercept.
  - 2.) Move from the y-int. by the given slope (rise/run) to find a second point.
  - 3.) Draw a line to connect the two points.
  - 4.) Follow steps 1-3 for the second line.
  - 5.) The point (or coordinate) where the two lines cross is the answer or solution for the system.

Check: Plug in the (x,y) coordinate into the equation to check to make sure it is correct.

$$y = 1 + x$$

$$(5) = 1 + (4)$$

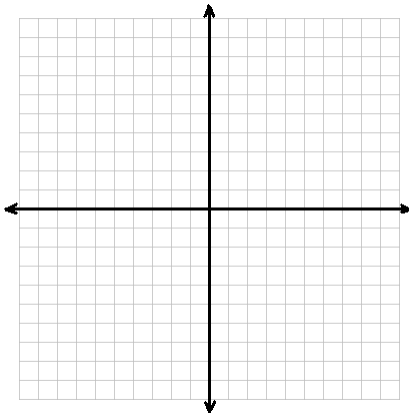
$$5 = 5 \quad \text{☺}$$

$$y = -7 + 3x$$

$$(5) = -7 + 3(4)$$

$$5 = -7 + 12$$

$$5 = 5 \quad \text{☺}$$



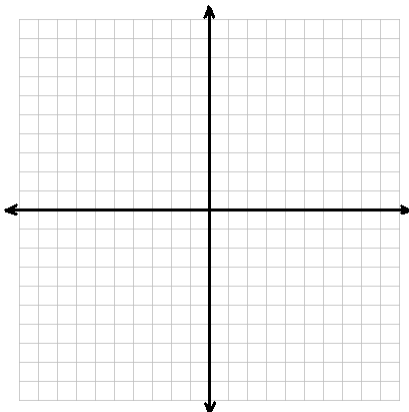
ANS: (4, 5)

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$3x - 5y = 15$ $-2x + y = 4$	$3x - 5y = 15$	+3	-5	+15	$\frac{-(+3)}{(-5)} = \frac{3}{5}$	$\frac{(+15)}{(-5)} = -3$	(0, -3)
	$-2x + y = 4$	-2	+1	+4	$\frac{-(-2)}{(1)} = \frac{2}{1}$	$\frac{(+4)}{(1)} = +4$	(0, 4)

Graph:

Check:



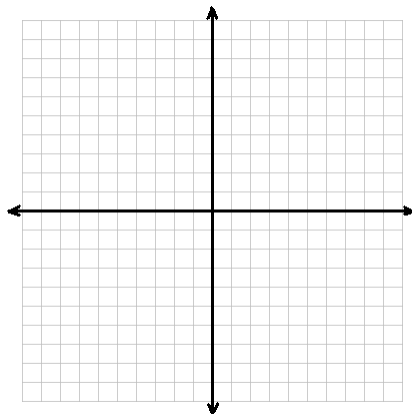
ANS: \_\_\_\_\_

Find the solution for the system:

System:	Line Type: $y = a + bx$ or $Ax + By = C$	A	B	C	Slope: $\frac{-A}{B}$ or $b$	y-int.: $\frac{C}{B}$ or $a$	Plot 1 <sup>st</sup> the y-int. (0, y-int)
$x + 2y = 0$ $2x - y = 0$							

Graph:

Check:



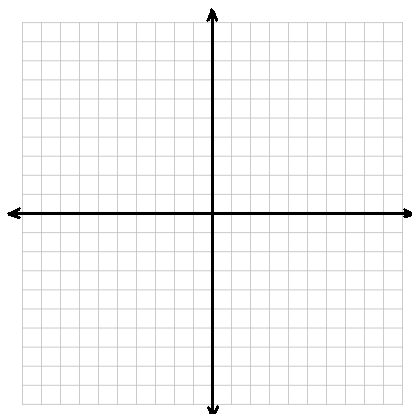
ANS: \_\_\_\_\_

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System:	Line Type: $y = a + bx$ or $Ax + By = C$	A	B	C	Slope: $\frac{-A}{B}$ or $b$	y-int.: $\frac{C}{B}$ or $a$	Plot 1 <sup>st</sup> the y-int. (0, y-int)
$3y - 2x = 6$ $y = 1 + x$							

Graph:

Check:



ANS: \_\_\_\_\_