

Round _____ Group _____ GB#: _____

Name: _____ #: _____

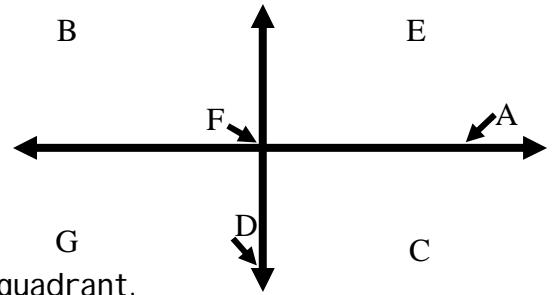
Algebra One - CP2 [Ivory]

Groupmates: _____

GU #1 - A Intro. To Coordinate Plane

1) Label all of the parts of the coordinate plane.

- A) _____ B) _____
- C) _____ D) _____
- E) _____ F) _____
- G) _____

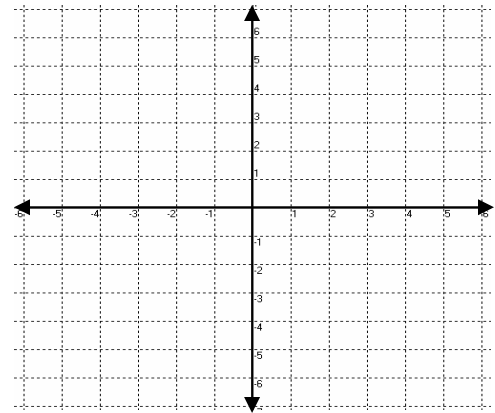


2) Fill in the signs of the x and y coordinates for each quadrant.

- | | | | |
|------------|-------------|--------------|-------------|
| Quadrant I | Quadrant II | Quadrant III | Quadrant IV |
| (,) | (,) | (,) | (,) |

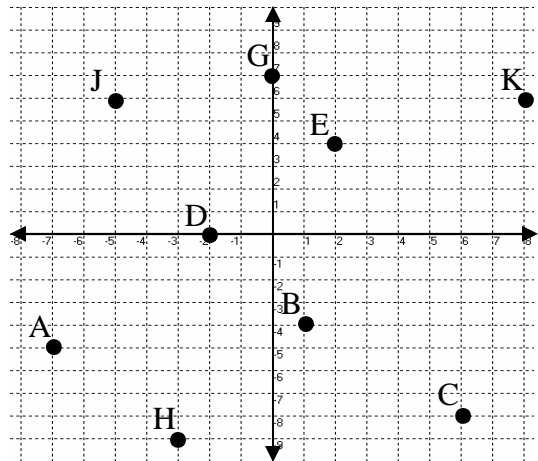
3) Plot the given ordered pairs on the coordinate plane to the right. (State thought process underneath and label the point with designated letter.)

- | | | | |
|----------|----------|----------|-----------|
| A(1, 0) | B(-3, 5) | C(2, 2) | D(-4, -6) |
| E(0, -5) | F(-2, 1) | G(2, 3) | H(-1, 6) |
| K(-4, 0) | M(0, 0) | P(3, -2) | R(6, -3) |



4) Using the coordinate plane to the right, write the ordered pair for each point. (State TP under the problem)

- | | | |
|--------|--------|--------|
| A(,) | B(,) | C(,) |
| D(,) | E(,) | G(,) |
| H(,) | J(,) | K(,) |



Exactly where in the coordinate plane do the following points lie? Write the capital letter under the problem.

- | | | | | | | |
|-------|--------|---------|--------|-------------|-------------|------------|
| (A) I | (B) II | (C) III | (D) IV | (E) x- axis | (F) y- axis | (G) origin |
|-------|--------|---------|--------|-------------|-------------|------------|

5) (0, 145) 6) (-89, 354) 7) (845, 0) 8) (0, 0) 9) (88, 78)

10) (-45, -923) 11) (-34, 0) 12) (25, -93) 13) (7, 3) 14) (-73, -32)

15) (-23, 3452) 16) (39, 77) 17) (12, -56) 18) (0, -2) 19) (-310, 890)

Fill in the blanks.

- 1) An equation that has only the variable y is a _____ line. An equation that has only the variable x is a _____ line. An equation that has both x and y is a _____ line.

Write an equation for the graph of a line that satisfies the information given.

- 2) The y - coordinate of each point is 239. 3) The x - coordinate of each point is 111.
 4) The x - coordinate of each point is -45. 5) The y - coordinate of each point is -13.

What point will the following lines intersect?

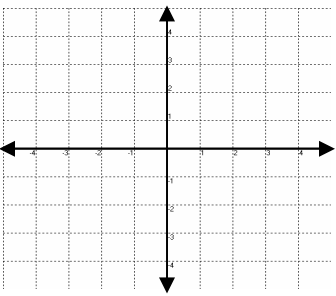
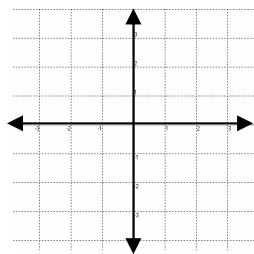
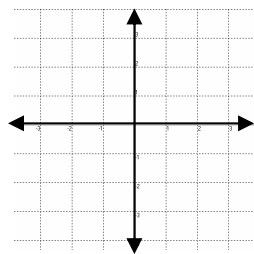
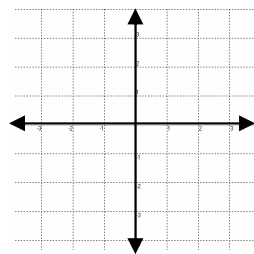
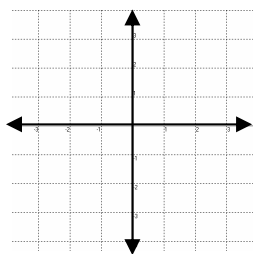
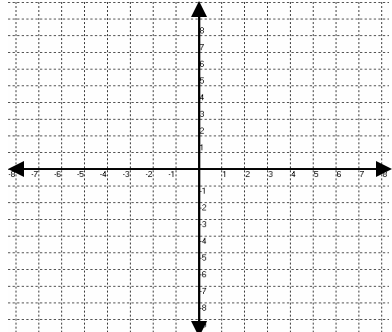
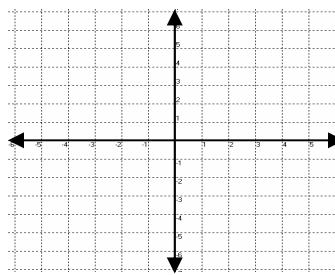
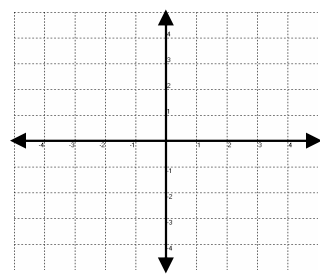
- 6) $x = -97$ & $y = -19$ 7) $y = 78$ & $x = 21$ 8) $x = -8$ & $y = 5$
 9) $x = -342$ & $y = 391$ 10) $y = 10$ & $x = -37$ 11) $y = 19$ & $x = 1$

Write the vertical and horizontal equations that intersect at the point given.

	12) (12, -45)	13) (-42, 87)	14) (7, 24)	15) (-123, -87)
Vertical				
Horizontal				

Lines must be drawn all the way across the graph using a ruler, have arrows & be labeled.

Graph the following equations.

16) $x = 4$ 	17) $y = -2$ 	18) $y = 3$ 	19) $x = -1$ 
20) $y = 1$ 	21) $x = -6$ 	22) $x = 5$ 	23) $y = -4$ 

Round _____ Group _____ GB#: _____

Name: _____ #: _____

Algebra One - CP2 [Gold]

Groupmates: _____

GU #1 - C Two Variable Equations

Algebraically determine if the ordered pairs are a solution to the equation. Circle either YES or NO. You

1) $2x - y = -3$ have to do every ordered pair. **SHOW ALL WORK!!!**

a) (4, 11)	b) (-4, 5)	c) (7, 2)	d) (-1, 1)
YES NO	YES NO	YES NO	YES NO

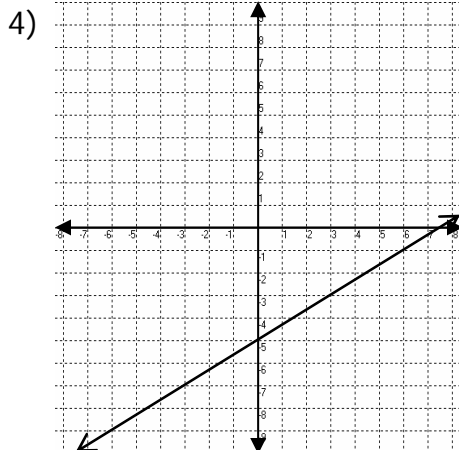
2) $7y - 5x = 17$

a) (-2, 1)	b) (6, 5)	c) (-9, -4)	d) (12, 11)
YES NO	YES NO	YES NO	YES NO

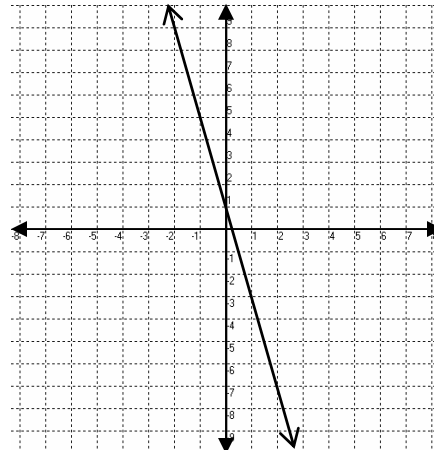
3) $3x + 4y = -12$

a) (-9, 8)	b) (-12, 12)	c) (-4, 6)	d) (8, 3)
YES NO	YES NO	YES NO	YES NO

Graphically determine if the ordered pair is a solution to the graph. Please plot and label with the letter.



- A(-3, 3) Y N 5)
 B(6, -1) Y N
 C(7, 0) Y N
 D(0, -5) Y N
 E(2, -3) Y N



- A(1, -3) Y N
 B(-1, 5) Y N
 C(-7, 2) Y N
 D(0, 1) Y N
 E(2, -6) Y N

Fill in the blanks.

6) How do you know an ordered pair is a solution, graphically? _____

7) How do you know an ordered pair is a solution, algebraically? _____

Round _____ Group _____ GB#: _____

Name: _____ #: _____

Algebra One - CP2 [White]

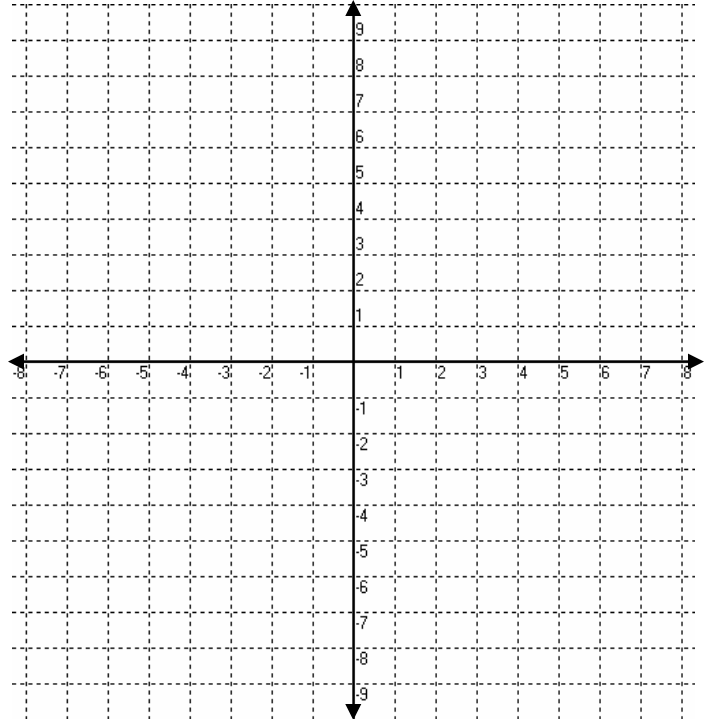
Groupmates: _____

GU #1 - D Graphing Using a Table

Graph using the table provided. To receive full credit you must (1) fill in ALL of the chart, (2) show every step, (3) pick 2 negative values, zero and 2 positive values for x, (4) list your x values from LEAST to GREATEST, (5) choose x values that will ensure integer ordered pairs, (6) graph lines as stated in the packet.

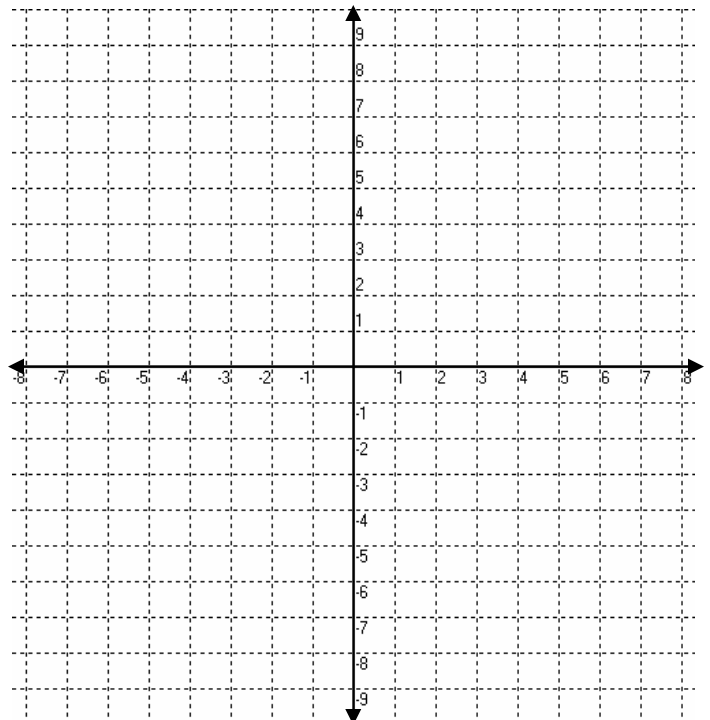
1) $y = 3x + 2$

x		y	(x, y)



2) $y = -\frac{2}{3}x - 5$

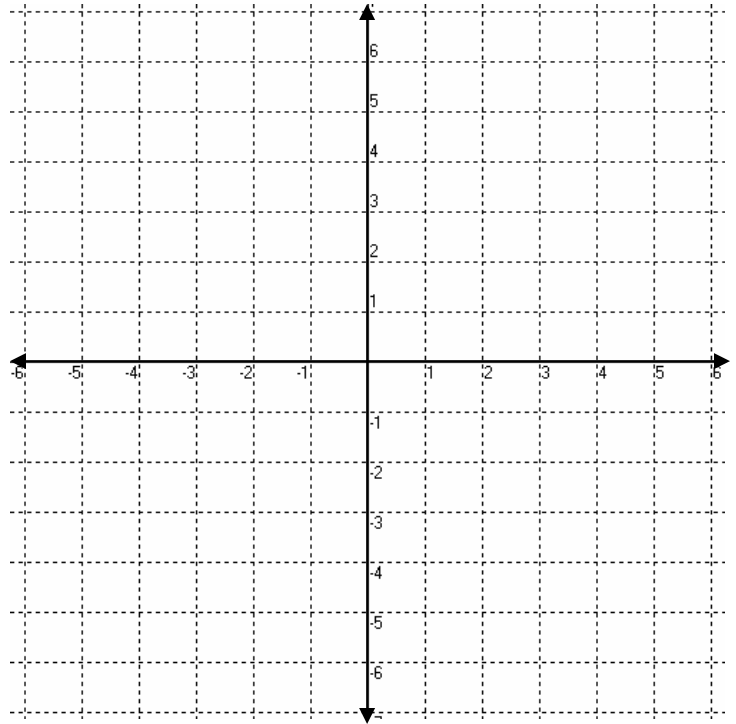
x		y	(x, y)



Graph using the table provided. To receive full credit you must (1) fill in ALL of the chart, (2) show every step, (3) pick 2 negative values, zero and 2 positive values for x, (4) list your x values from LEAST to GREATEST, (5) choose x values that will ensure integer ordered pairs, (6) graph lines as stated in the packet.

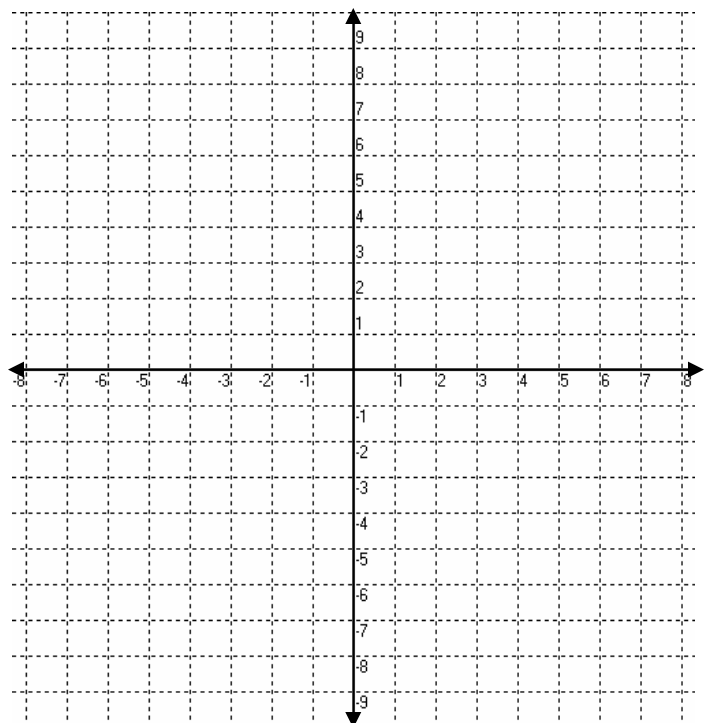
3) $y = -x + 4$

x		y	(x, y)



4) $y = \frac{1}{4}x - 5$

x		y	(x, y)



Round _____ Group _____ GB#: _____
Algebra One – CP2 [Green]
GU #1 – E Finding the x- and y- intercepts

Name: _____ #: _____
Groupmates: _____

Algebraically find the x- and y- intercepts. Write answers as *ordered pairs* in the box provided. Show all work. Only use integers, reduced fractions or mixed numbers as answers.

1) $15x + 3y = 30$

2) $-5x + 6y = -60$

x-intercept: _____ y-intercept: _____

x-intercept: _____ y-intercept: _____

3) $7x - y = -14$

4) $2x - 3y = 1$

x-intercept: _____ y-intercept: _____

x-intercept: _____ y-intercept: _____

5) $8x + 6y = -16$

6) $6x - 7y = -42$

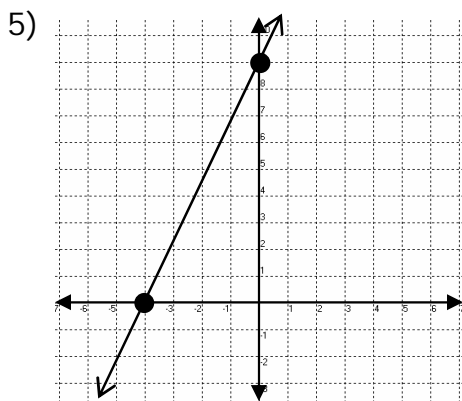
x-intercept: _____ y-intercept: _____

x-intercept: _____ y-intercept: _____

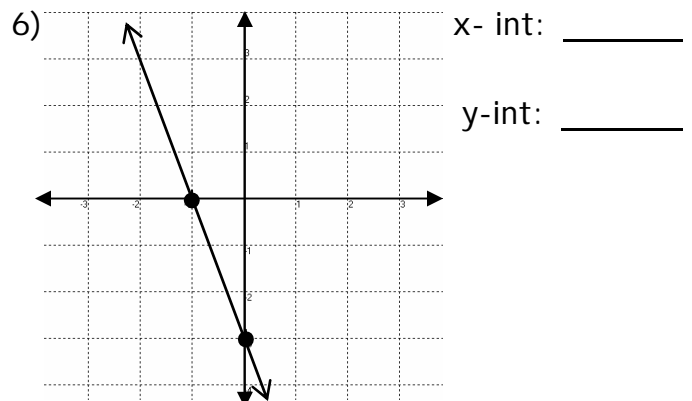
Fill in the blanks.

- 1) To find the x intercept, let _____ and solve for _____
- 2) To find the y intercept, let _____ and solve for _____
- 3) State whether the point given is a x intercept (x-int), y intercept (y-int) or neither (n/a).
 - a) (12, 0) _____
 - b) (-9, 3) _____
 - c) (0, -13) _____
 - d) (13, 8) _____
 - e) (0, 19) _____
 - f) (10, -100) _____
- 4) The x intercept lies on the _____ and the y intercept lies on the _____

State the x and y intercept of the lines graphed. (Write as ordered pairs)



x-int: _____
 y-int: _____

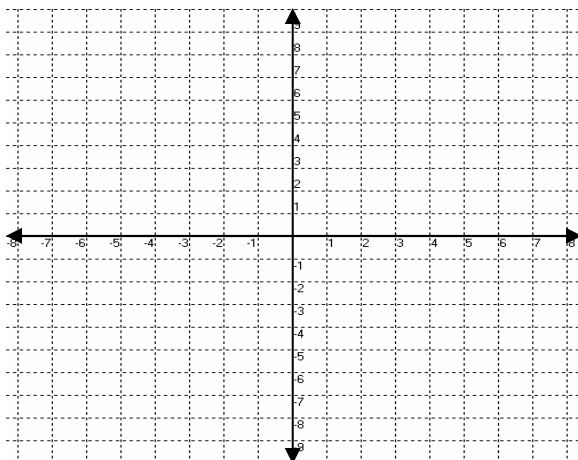


x- int: _____
 y-int: _____

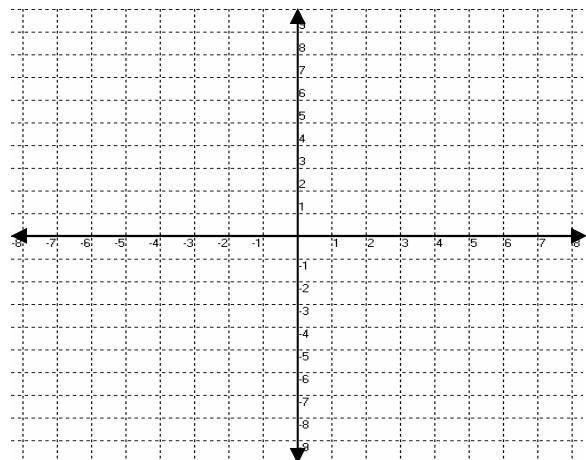
Graph means lines must go all the way across the graph, be drawn using a straight edge, have arrows and be labeled with the equation.

State which intercept is which, then graph the line.

- 7) (6, 0) _____ and (0, -8) _____



- 8) (0, 4) _____ and (-7, 0) _____



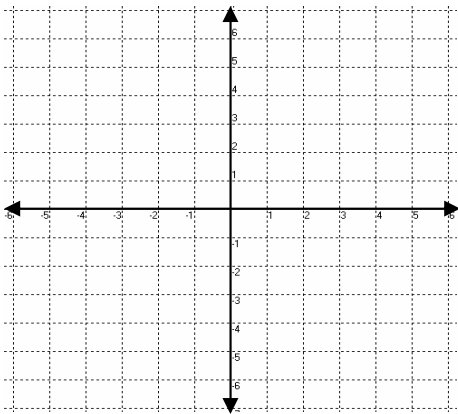
Lines must go all the way across the graph, be drawn with a ruler, have arrows and be labeled with the equation.

Find the x and y intercepts like the notes, then graph. (Label work and write as ordered pairs)

9) $4x + 6y = 12$

x- int:

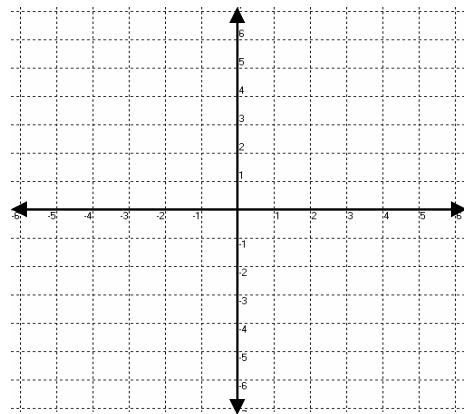
y- int:



10) $5x - y = -5$

x- int:

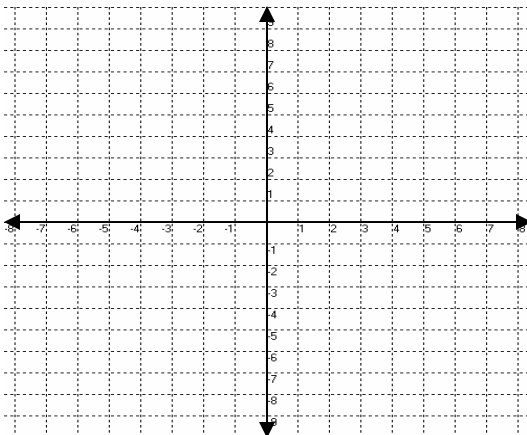
y- int:



12) $3x - 18y = 18$

x- int:

y- int:



13) $7x + 2y = -14$

x- int:

y- int:

