

Name \_\_\_\_\_

Alg1 Q3 Test 1 Review

Due: 2/1 Test: 2/5

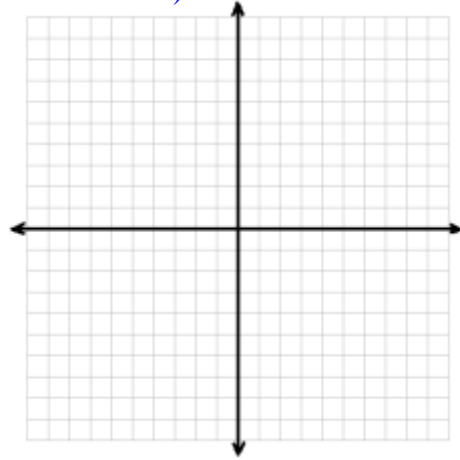
January 28, 2019

Graphing I

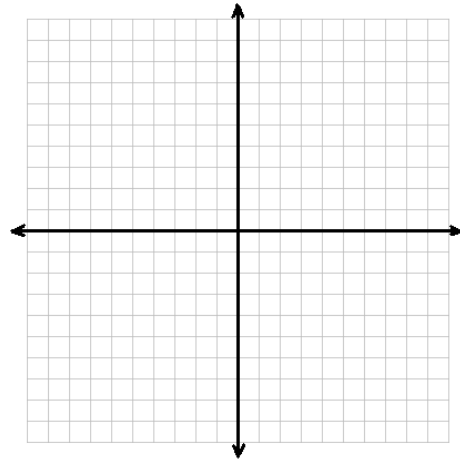
**Part I: Graphing Linear Equations:**

Find the equation in slope intercept form and graph: (1 on each set of axis)

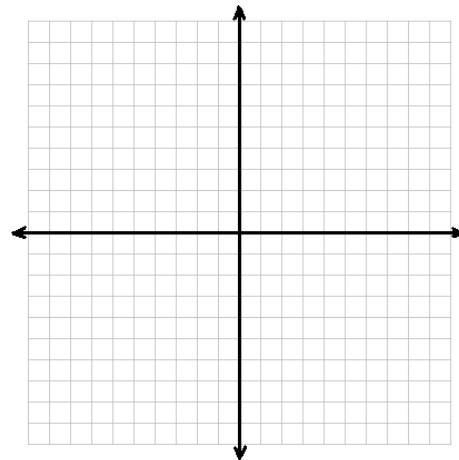
1)  $(-3, 6)(4, -8)$



2)  $(3, 5)(-6, -1)$



3)  $(4, -6)(-4, -6)$



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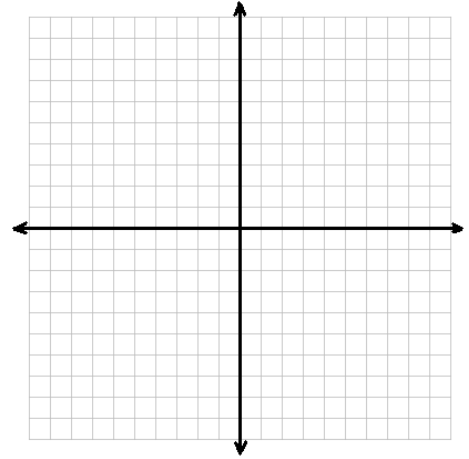
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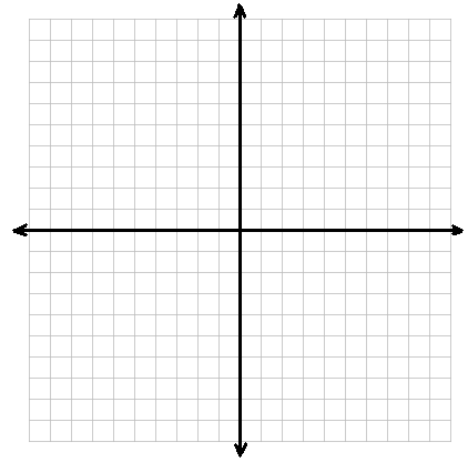
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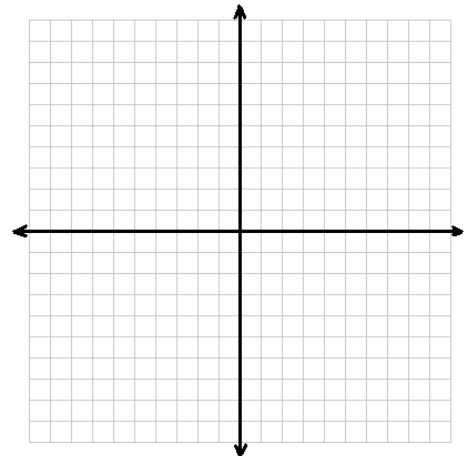
4)  $m = -\frac{3}{4}$   $(-8, 7)$



5)  $m = 2$   $(5, 6)$



6)  $m = \text{undefined}$   $(3, 8)$



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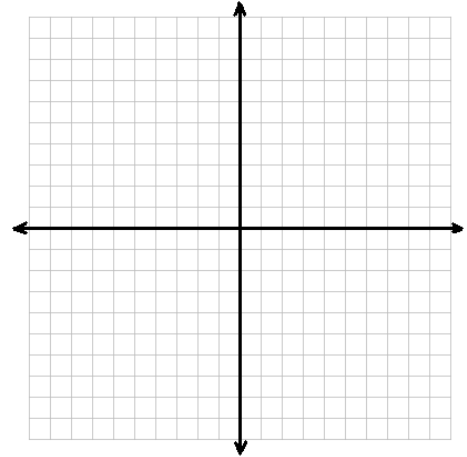
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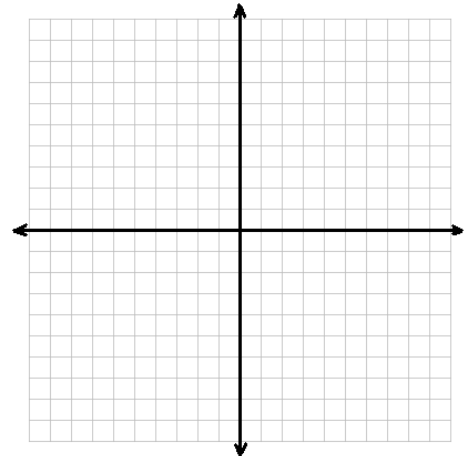
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Graphing I

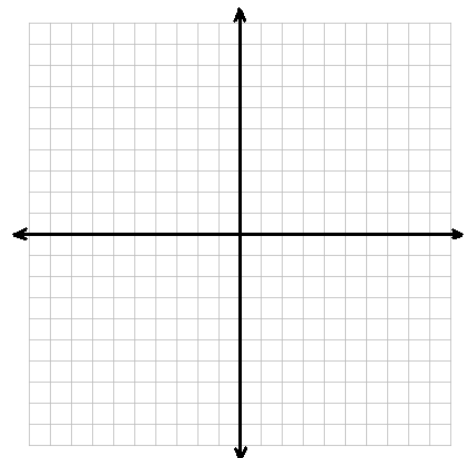
7)  $y - 5 = \frac{1}{4}(x - 4)$



8)  $48x - 12y = 72$



9)  $y + 2 = (-\frac{3}{5})(x - 10)$



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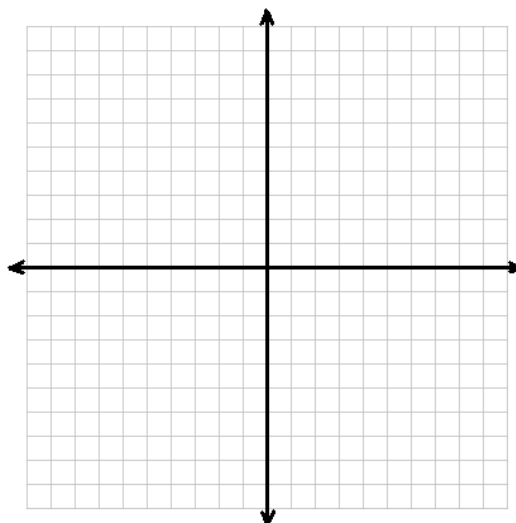
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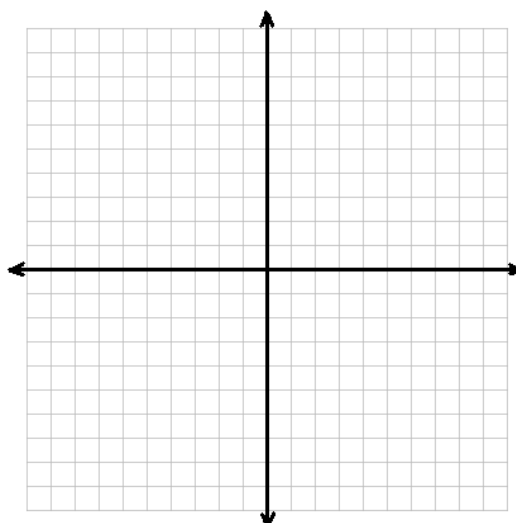
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Graphing I

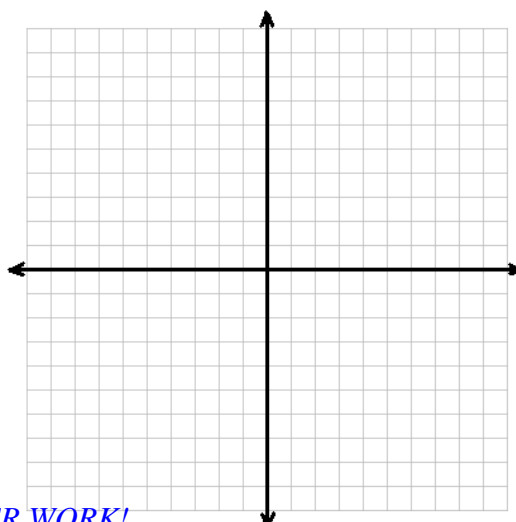
10)  $54x + 18y = 36$



11)  $55x - 22y = 66$



12)  $y - 4 = (-1/3)(x + 3)$



*FOLLOW REQUIRED FORMAT AND SHOW ALL PROPER WORK!*

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Graphing I

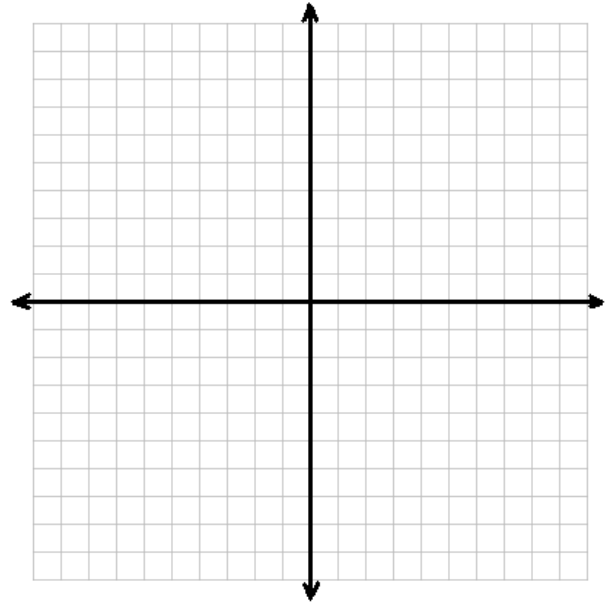
- a) Use the two points to find the equation of the line.
- b) For the line found in part a, find a line that is parallel and passes through the given point.
- c) Graph both lines on the same set of axis.

Given Line:

1) (6, 7) (-9, -3)

Parallel:

(3,-4)

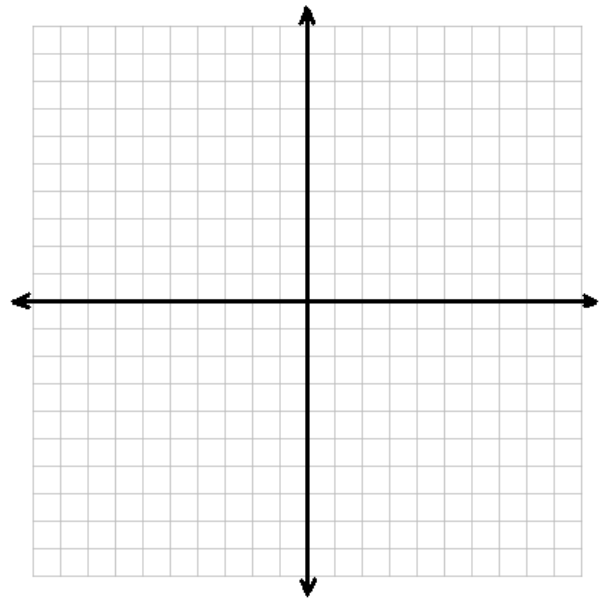


Given Line:

2) (-3,6) (4,-8)

Parallel:

(-6,7)



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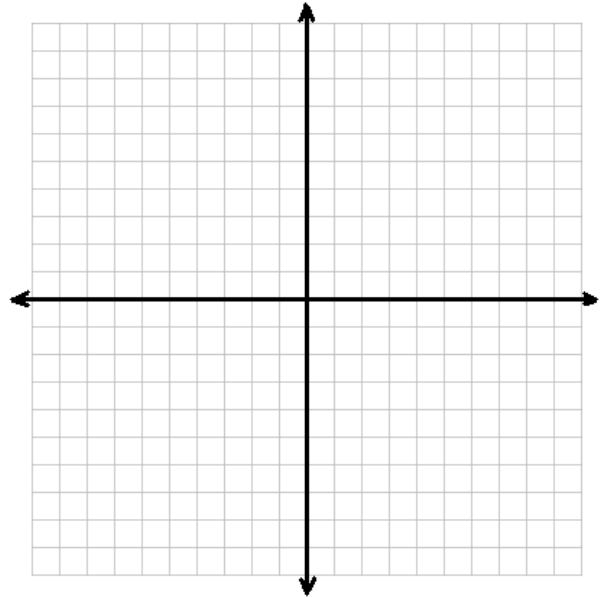
Graphing I

Given Line:

3) (5,4) (5,-4)

Parallel:

(-3,-7)

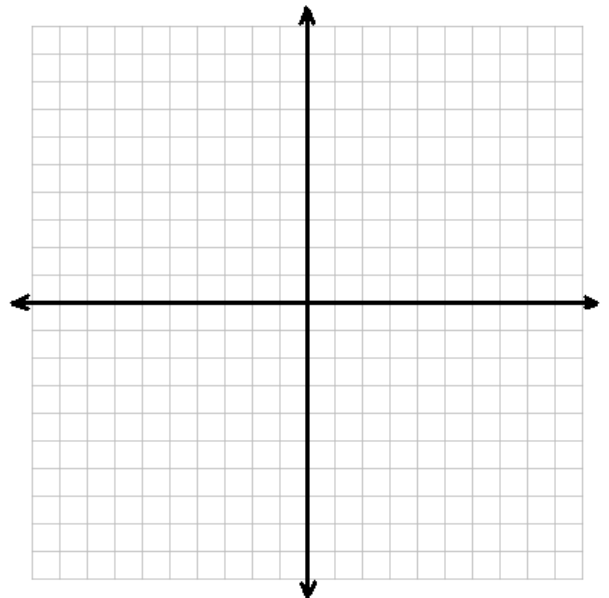


Given Line:

4) (5,-6) (-4,-6)

Parallel:

(-6,5)



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Graphing I

For #'s 5-8, just find the equation. You do not have to graph.

5) Find the equation of the line parallel to  $y = \frac{3}{5}x - 2$ , passing through  $(-5, 2)$ .

6) Find the equation of the line parallel to  $y = -5x - 6$ , passing through  $(-2, 13)$

7) Find the equation of the line parallel to  $y = 2$ , passing through  $(-8, -3)$

8) Find the equation of the line parallel to  $x = -4$ , passing through  $(5, -11)$

# Answer Key:

## Part I:

- 1)  $y = -2x$
- 2)  $y = \frac{2}{3}x + 3$
- 3)  $y = -6$
- 4)  $y = -\frac{3}{4}x + 1$
- 5)  $y = 2x - 4$
- 6)  $x = 3$
- 7)  $y = \frac{1}{4}x + 4$
- 8)  $y = 4x - 6$
- 9)  $y = (-\frac{3}{5})x + 4$
- 10)  $y = -3x + 2$
- 11)  $y = (\frac{5}{2})x - 3$
- 12)  $y = -\frac{1}{3}x + 3$

## Part II:

- |                           |                        |
|---------------------------|------------------------|
| 1) $y = \frac{2}{3}x + 3$ | $y = \frac{2}{3}x - 6$ |
| 2) $y = -2x$              | $y = -2x - 5$          |
| 3) $x = 5$                | $x = -3$               |
| 4) $y = -6$               | $y = 5$                |
| 5) $y = \frac{2}{5}x + 4$ |                        |
| 6) $y = -5x + 3$          |                        |
| 7) $y = -3$               |                        |
| 8) $x = 5$                |                        |