Beginning Algebra	**Name:** _____
Study Guide 9	**Class:** _____
Due Date: _____	**Score:** _____

No Work $\Leftrightarrow$ No Points

Use Pencil Only $\Leftrightarrow$ Be Neat & Organized

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1. Find the slope of the line that contains the points $A(5, -2)$ and

(a) (2 points) $B(3, -2)$**.**

(a) _____

(b) (2 points) $B(5, 6)$**.**

(b) _____

(c) (2 points) the origin.

(c) _____

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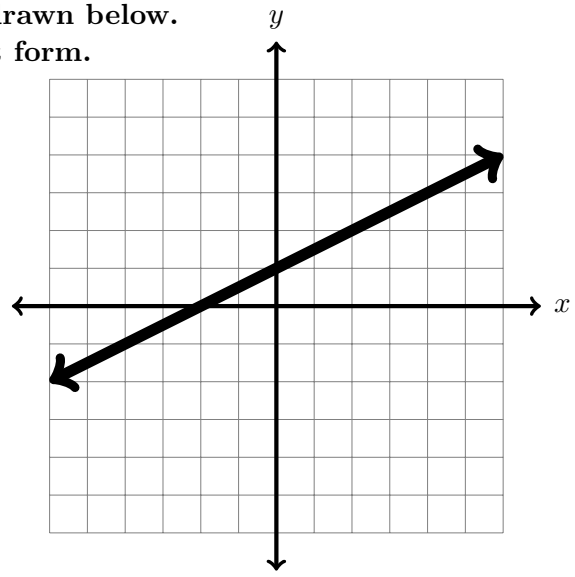
2. (3 points) Find the equation of the line drawn below. Write your final answer in slope-intercept form.



2. _____

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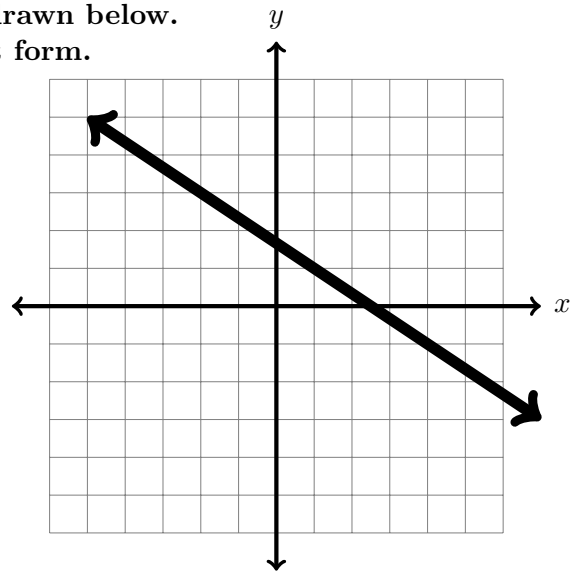
3. (3 points) Find the equation of the line drawn below. Write your final answer in slope-intercept form.



3. _____

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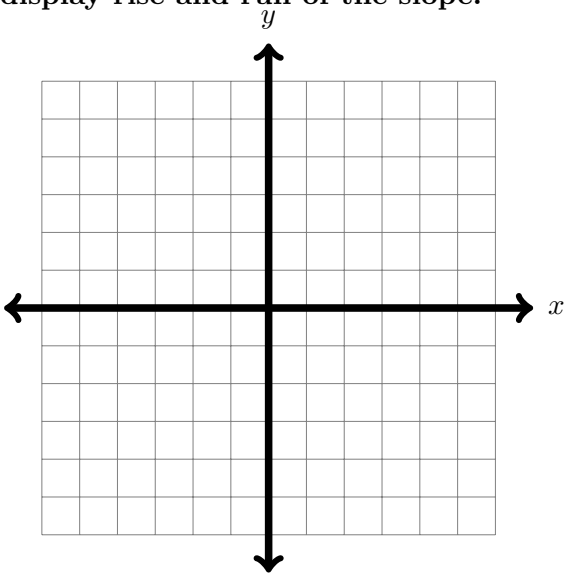
4. (4 points) Find an equation of a line that contains the point $A(-4,-2)$ with slope $\frac{3}{4}$. Write your answer in slope-intercept form and then graph it. Make sure to display rise and run of the slope.



4. _____

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5. (3 points) Find the equation of the line $\overleftrightarrow{AB}$ which contains the points $A(0,3)$ and $B(4,0)$. Write your final answer in slope-intercept form.

5. _____

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6. (3 points) Find an equation of the line that contains the origin and is parallel to $y = \frac{3}{5}x - 2$. Write your final answer in slope-intercept form.

6. _____

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7. (4 points) Find an equation of the line that contains the point $(4, -3)$ and is perpendicular to $y = -2x - 10$. Write your final answer in slope-intercept form.

7. _____

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8. (4 points) Find an equation of the line that contains the point $(-2, 6)$ and is parallel to $2x + 3y = -10$. Write your final answer in standard form.

8. _____

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9. (4 points) Find an equation of the line that contains the point $(-4, -3)$ and is perpendicular to $2x - y = 0$. Write your final answer in standard form.

9. _____

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10. Find the equation of the line that contains the point $A(-4, 3)$ and

(a) (2 points) has no slope.

(a) _____

(b) (2 points) has zero slope.

(b) _____

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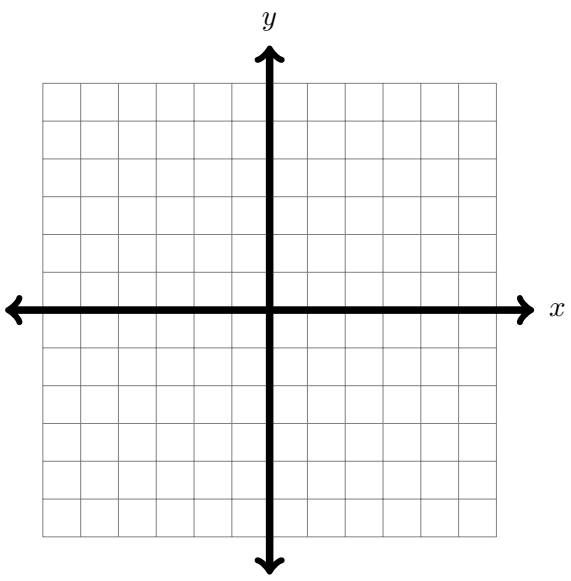
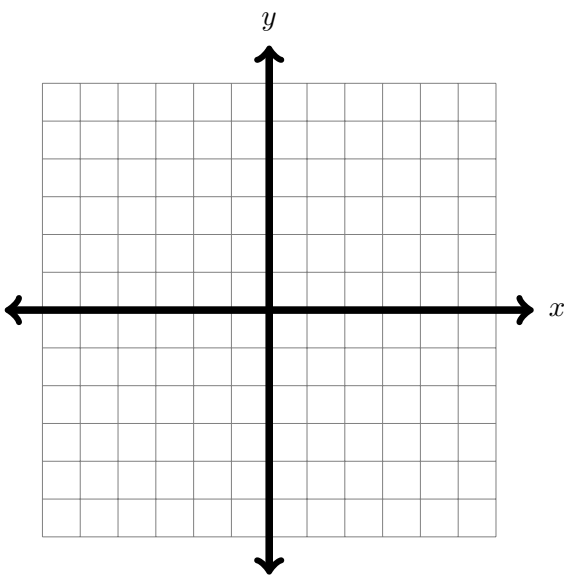
11. (6 points) Graph and shade the solution:

$y < -4$



$x \geq 3$



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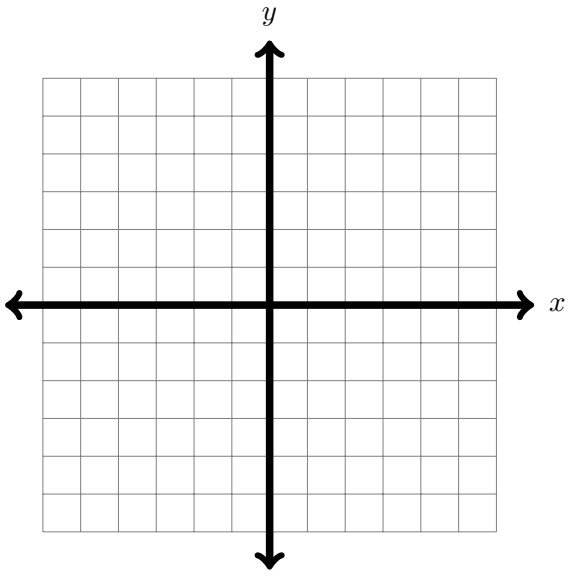
12. (6 points) Graph and shade the solution:

$y < \frac{-2}{3}x + 4$



$5x - 4y \leq -20$