

1) Write the equation of the line with slope =  $\frac{1}{5}$  through point  $(-4, 8)$ .

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2) Find the slope of the line through:  $(-8, 4.25)$   $(-3, 2.5)$   
Reduce your slope.

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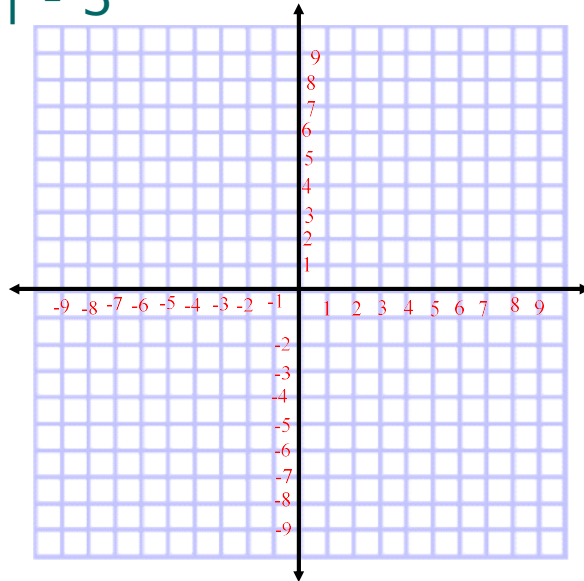
3) Given  $f(x) = -5x + 2x - 7$ , and  $h(x) = -x^2 + 3$  find the value of  $f(-4) + h(-5)$ .

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4) State the vertex and describe the steps of the transformation:

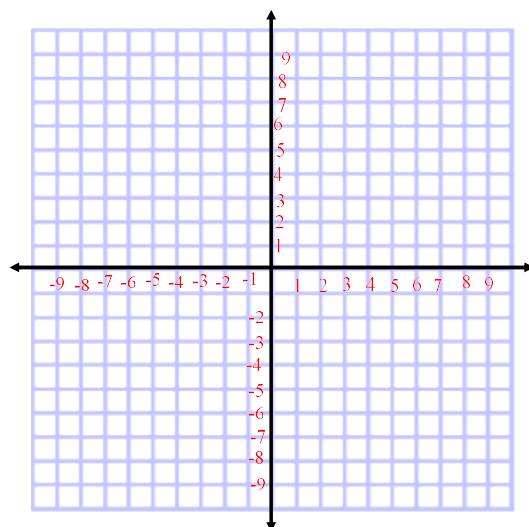
$$y = |2(x + 5)| - 3$$




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5) Graph the inequality

$$y < -|x + 4| + 3$$




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6) Write the equation of the translation of  $y = |x|$  that is reflected over the x-axis, shifted 3 units to the right and 8 units up.

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7) Write the equation of the line perpendicular to  $4y - 6x = 12$  through  $(-2, 5)$

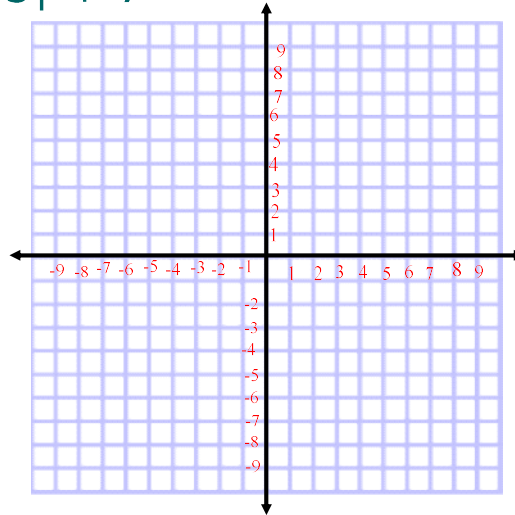
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8) Write the equation of the line with undefined slope, containing  $(-3, 9)$ .

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9) Describe the transformation then use the reference points to graph:

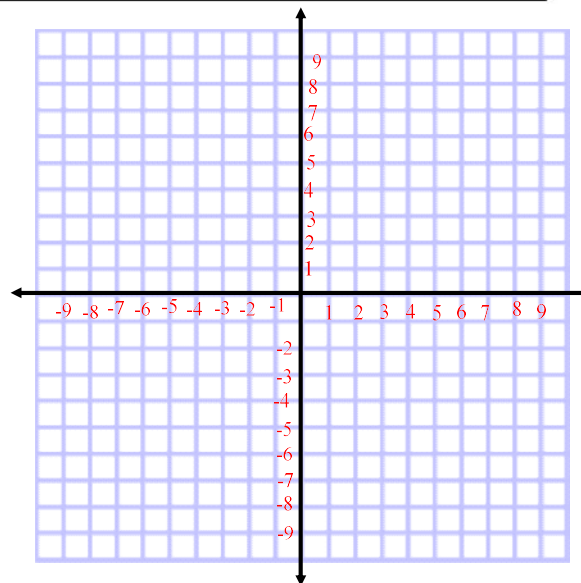
$$y = 2|x - 3| + 7$$



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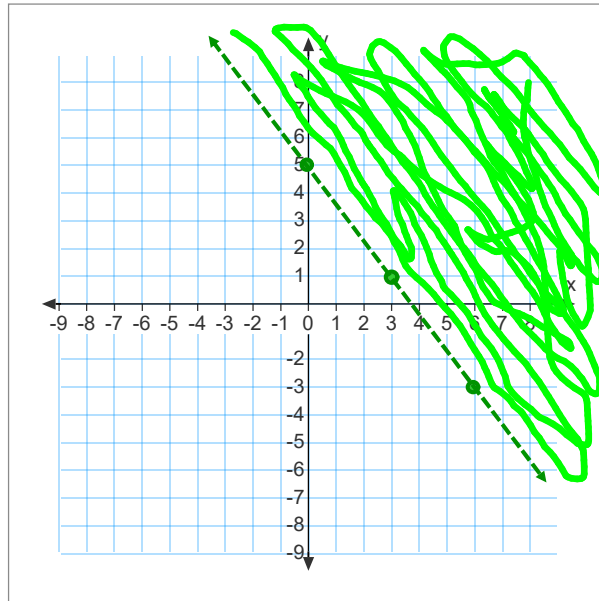
10) Graph the following inequality:

$$-2y > -6x + 8$$



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12) Write an inequality for the graph:



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13) Fred's Auto Shop has a standard \$55 shop charge for every job it takes. In addition, the mechanic working on the job charges \$32 per hour.

a) Write an equation to model the mechanic's pay as a function of time.

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14) A pediatrician would like to determine the relationship between infant female weights versus age. She found, on average, a 3 month old weighs 12 pounds and a 9 month old weighs 20 pounds.

- a) Write a linear equation to model the calories needed for a person with age (x).
- b) What does the slope mean in the context of the problem?
- c) What does the y-intercept mean in the context of the problem?

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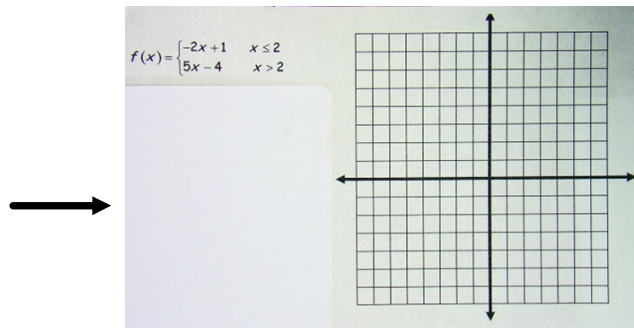
## REVIEW ASSIGNMENT

p. 109 #11, 14-16, 18, 19, 29, 33-41 odd, 42-44 all  
and pg. 71 #3-5  
Green Workbook p 17 5-8, p 21 3, 5, 6

Piecewise function practice graph

$$f(x) = \begin{cases} -2x + 1 & x \leq 2 \\ 5x - 4 & x > 2 \end{cases}$$

Review pg 81! There will be word problems on the test!



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