Math-2
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## SM2 HW #5-2 (Intercept Form)

Date Period

## For problems 1-8:

- a) Convert the equation to intercept form by factoring.
- b) What are the x-intercepts?
- c) Find the vertex using the method I taught in the notes.
- d) Write the vertex form equation.

1) 
$$y = x^2 - 6x + 8$$

2) 
$$y = x^2 - 14x + 40$$

3) 
$$y = x^2 + 10x + 16$$

4) 
$$y = x^2 + 4x - 32$$

$$5) \ \ y = 2x^2 - 12x + 18$$

6) 
$$y = x^2 - x - 12$$

7) 
$$y = x^2 + 10x + 21$$

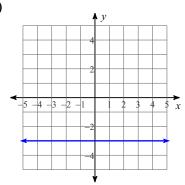
8) 
$$y = x^2 - 6x - 16$$

Solve each inequality and graph its solution.

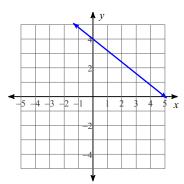
9) 
$$-3|2v| - 8 \ge -68$$

Write the slope-intercept form of the equation of each line.

10)



11)



Find each product.

12) 
$$(7p-3)(7p+3)$$

13) 
$$(2v-7)^2$$