

HW DAY 12  
ALG 2 HOPKINS

1. Write the vertex for  $y = 7(x-5)^2 + 2$

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2. Find the vertex by completing the square  
show your work!  
 $y = x^2 - 8x + 10$

3. STATE WHAT EACH GRAPH DID

$$y = (x+3)^2$$

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

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$$y = \sqrt{x+7} - 3$$

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$$y = \frac{-1}{x}$$

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$$y = \frac{-1}{x+2}$$

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$$y = \frac{-1}{x+2} + 4$$

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4. FIND THE REGRESSION (QUADRATIC) FOR

x	2	5	9	12	15
y	3	8	11	6	0