

Day 1 – Quadratic Transformations (h & k)**Practice Assignment**

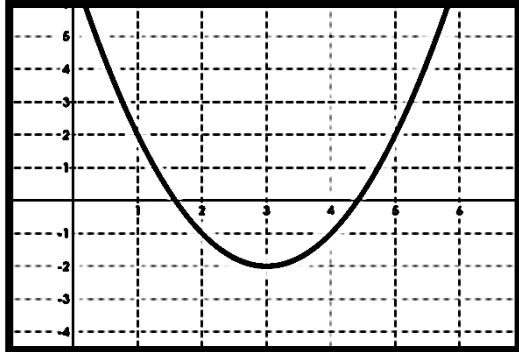
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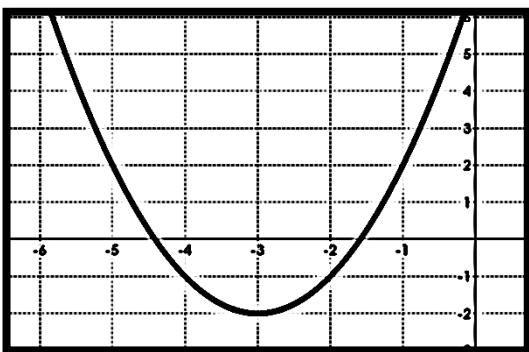
Block: _____

1. For each equation, name the vertex and transformations and then match the graphs below.**Equations:** A. $y = (x + 3)^2 - 2$ B. $y = (x - 3)^2 - 2$ C. $y = (x - 3)^2 + 2$ D. $y = (x + 3)^2 + 2$ **Vertex:** _____**Transformations:** _____**Graphs:** _____

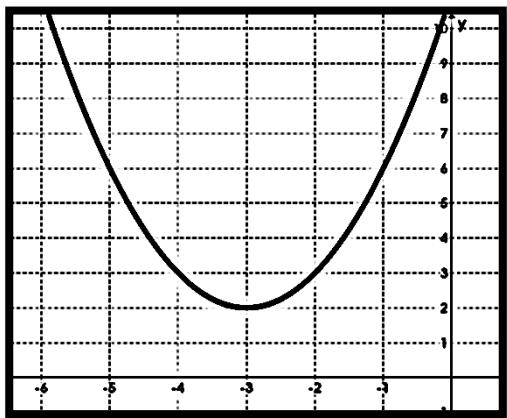
Graph 1



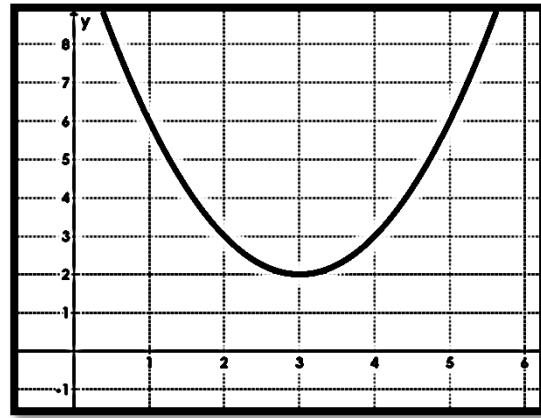
Graph 2



Graph 3



Graph 4

**2. Given each equation, name the vertex and describe the transformations.**

a. $y = (x - 5)^2 + 4$

b. $y = (x + 1)^2 - 6$

c. $y = x^2 - 7$

d. $y = (x + 2)^2$

3. Create an equation that represents each transformation.

a. Shifted down 6 units and left 4 units

b. Shifted right 8 units and up 5 units

c. Shifted left 1 units

d. Shifted down 10 units

4. Name the vertex from the given transformations.

a. Shifted left 3 units and down 4 units

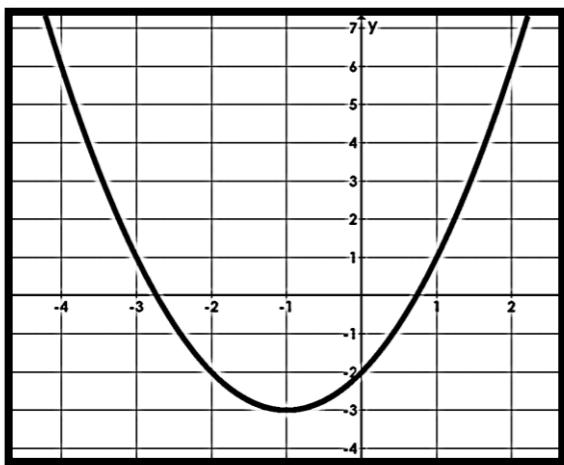
b. Shifted up 9 units and right 2 units

c. Shifted up 7 units

d. Shifted right 4 units

5. Create an equation that represents each graph. Name the vertex.

a.



b.

