Vertex Form of a Quadratic Function HW

Name_____ Date_____

Vertex form of a Quadratic is _____ where (h,k) is the _____.

Find the vertex, AOS, direction, and Transformations of the Quadratic Equation.

- $Y = (x - 5)^2 + 4$

Vertex_____

AOS_____

Up or Down

Transformations

- $Y = -3(x - 1)^2 + 3$

Vertex_____

AOS_____

Up or Down

Transformations

- $Y= -(x + 3)^2 - 2$

Vertex_____

AOS_____

Up or Down

Transformations

- $Y = 2(x + 3)^2 - 3$

Vertex_____

AOS_____

Up or Down

Transformations

Write the equation given the transformations:

1) Shifted left 4 and down 2

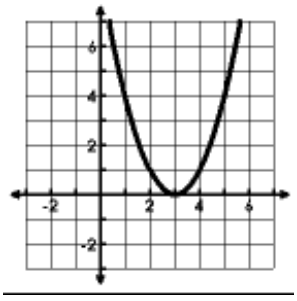
2) Sifted right 8 and up 6

3) Reflected over the x-axis, up 7

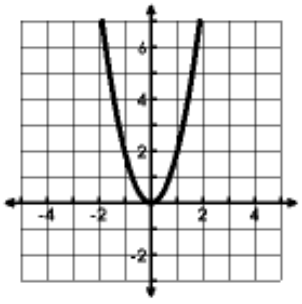
4) Stretch of 3, right 6, reflected over the x-axis

Write the equation of the graph or graph the function.

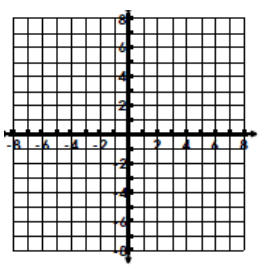
1)



2)



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



4) $y = -(x + 1)^2 + 1$