Quadratic Function (Vertex Form) Quiz B

Name: Key

1.) Write a quadratic equation in vertex form if a = -4, h = 5 and k = 2.

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

2.) Identify the vertex of the quadratic function: $y = 4(x - 2)^2 - 5$

(2, -5)

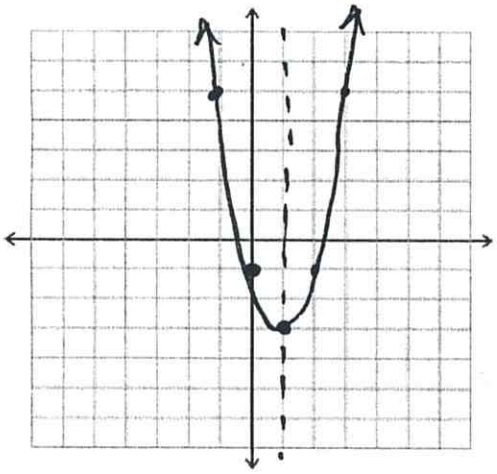
What does the (4) in the equation represent

a = 4, so parabola opens up. Vertex is a minimum.

3.) Graph the equation. Label the vertex and axis of symmetry. Show your table of values.

$y = 2(x - 1)^2 - 3$

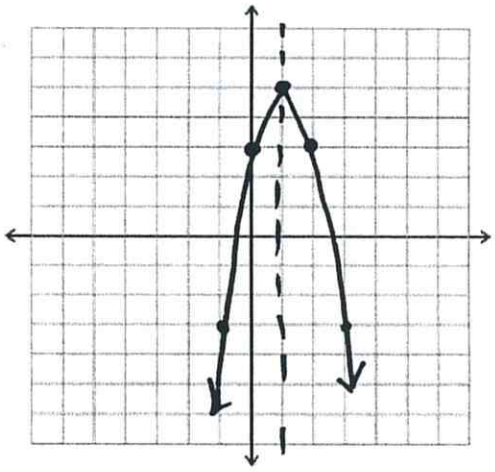
x	y
0	-1
-1	5



4.) Graph the equation. Label the vertex and axis of symmetry. Show your table of values.

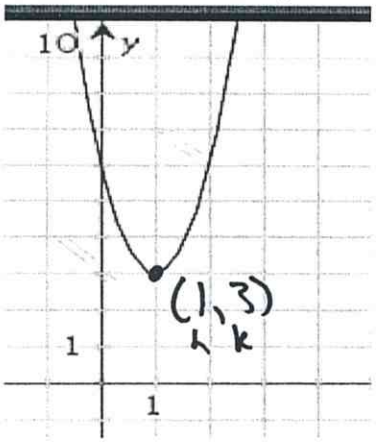
$y = -2(x - 1)^2 + 5$

x	y
0	3
-1	-3



5.) Use the graph and the given equation to find a quadratic equation in vertex form.

a = 3 $y = 3(x-1)^2 + 3$



6.) Use the graph and the given equation to find a quadratic equation in vertex form.

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