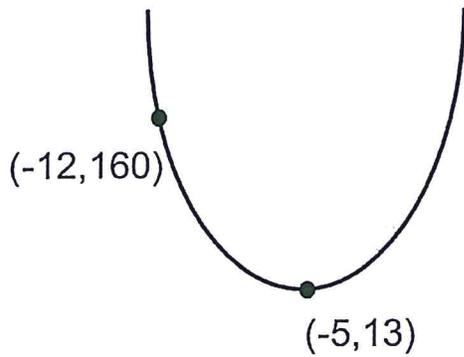


Bellwork Hon Alg 2 Wednesday, November 2, 2016

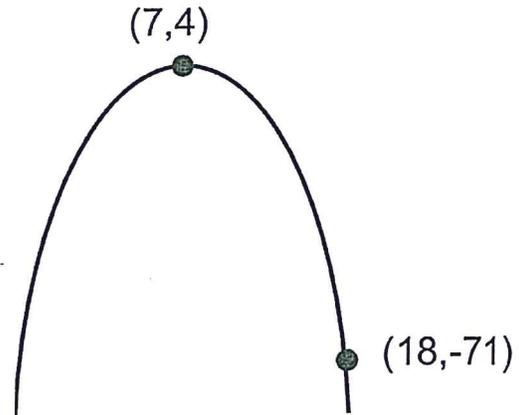
For 1 to 4, write the equation of each quadratic in Vertex Form.

1. Vertex is $(-1, 8)$ and the x-intercept is 4

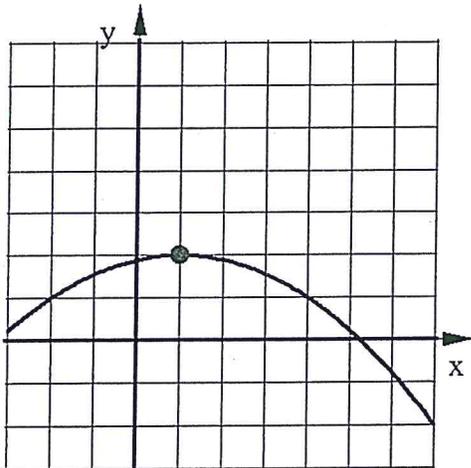
2.



3.

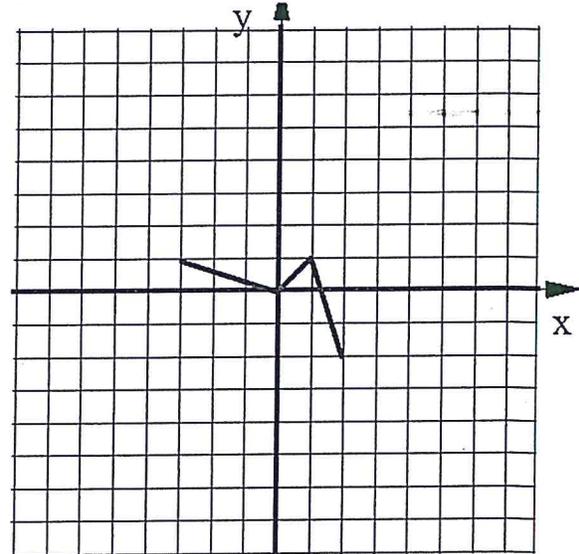


4.



5. Below is the graph of $y = f(x)$

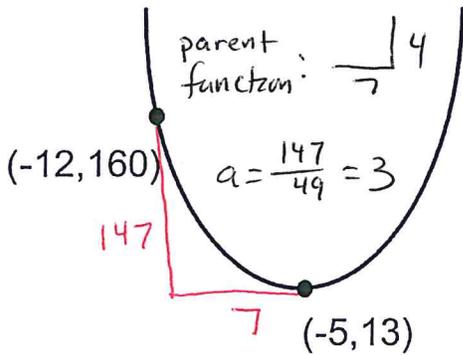
Graph this transformation of $y = -2f(x - 5) + 4$.



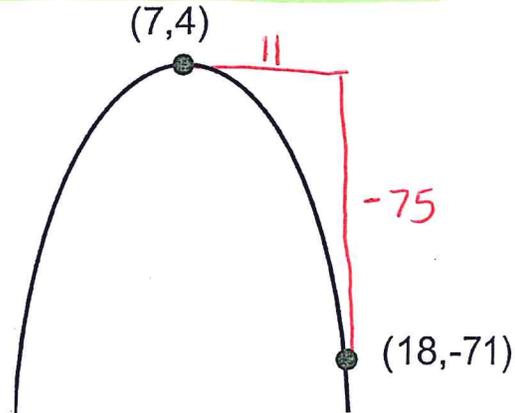
Answers

1. Vertex is (-1, 8) and the x-intercept is 4

2. $y = 3(x+5)^2 + 13$

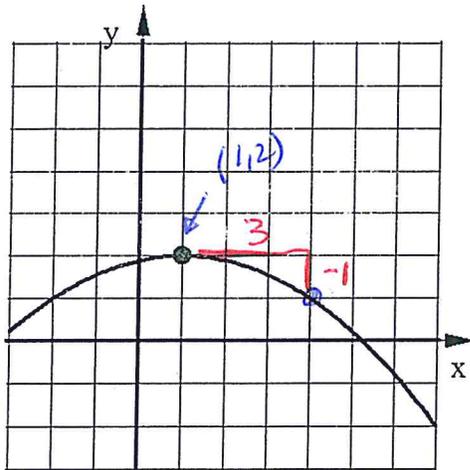


3. $y = \frac{-75}{121}(x-7)^2 + 4$



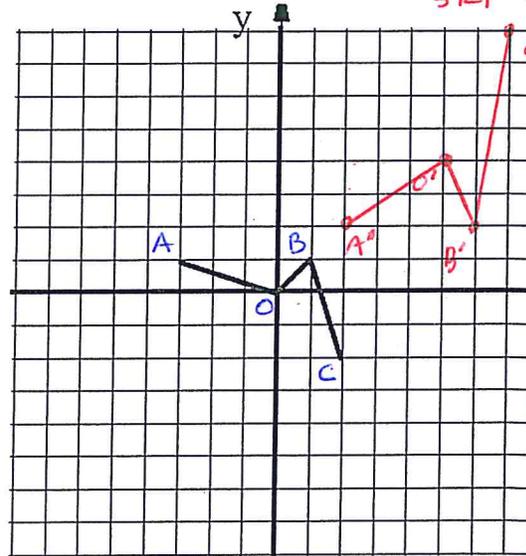
parent function
 $\frac{1}{11} \sqrt{121}$
 $a = \frac{-75}{121}$

4. $y = \frac{-1}{9}(x-1)^2 + 2$

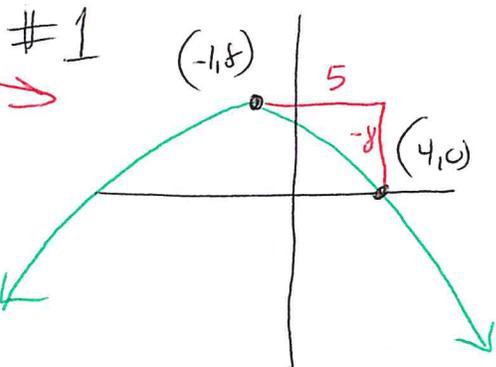


parent function $\frac{1}{3} \sqrt{9}$ $a = \frac{-1}{9}$

5. Below is the graph of $y = f(x)$
 Graph this transformation of $y = -2f(x-5) + 4$



2x Taller upside down
 5 RT 4 up



$y = \frac{-8}{25}(x+1)^2 + 8$

parent function: $\frac{1}{5} \sqrt{25}$

$a = \frac{\text{image}}{\text{original}} = \frac{-8}{25}$