## What's my function?

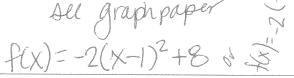
Use all of the clues given to write each quadratic function.

Name Master &

Date \_\_\_\_\_\_Block \_

1. I have a maximum of (-1, 4), and a vertical stretch of 2. What's my function?

3. One of my zeros is 3, 1 have a line of symmetry at x = 1, and my range is  $(-\infty, 8]$ . What's my function?



4. I have only one zero at 2, and a y-intercept at (0, 8). What's my function?

$$f(x) = 2(x-2)^2$$

6. I have a minimum of (-1, 5) and a vertical compression of  $\frac{1}{3}$ . What's my function?

7. One of my zeros is at 1, 1 have a maximum output value of 4, and my line of symmetry is x = 3. What's my function?

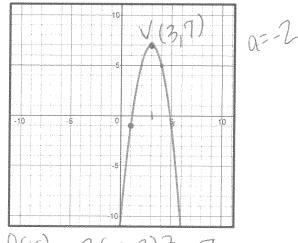
$$f(x) = -(x-3)^2 + 4$$

9. I have a vertical stretch of 3, and zeros at  $-\frac{2}{3}$  and 6. What's my function?

$$f(x)=3(x+3)(x-6)$$

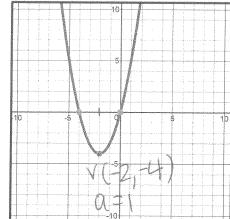


2. My graph is below. What's my function?



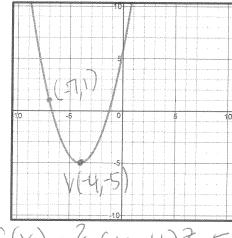
$$f(x) = -2(x-3)^2 + 7$$

5. My graph is below. What's my function?



f(x)=(x+2)2-4

8. My graph is below. What's my function?



 $y=a(x+4)^{2}-5$   $1=a(-3)^{2}-5$  1=9a-5 6=9a 6=0 2=0

 $f(x) = \frac{2}{5}(x+4)^2 - 5$ 

