UNIT 8 - GRAPHING QUADRATICS



STUDY GUIDE FOR QUIZ #1

Describe in words how the parent function would be transformed.

3.
$$y = (x-5)^2$$
 Right 5

4.
$$y = -x^2 - 12$$

reflect X-AXIS
down 12

5.
$$y = 5(-x)^2$$

refuse y-axis
vertical stretch
b.a.f.o. 5

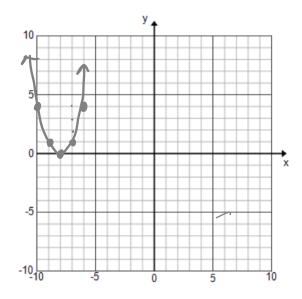
6.
$$y = (x + 12)^2 + 16$$

Left 12

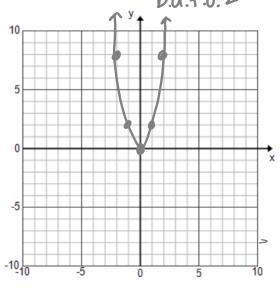
Up 16

Graph the following Quadratic Functions.

7.
$$y = (x + 8)^2$$
 left 8

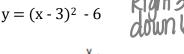


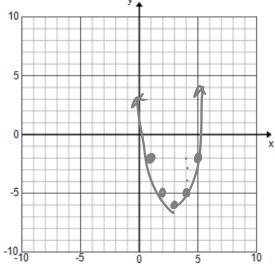
8.
$$y = 2x^2$$
 vertical stretch b.a.f.o. 2



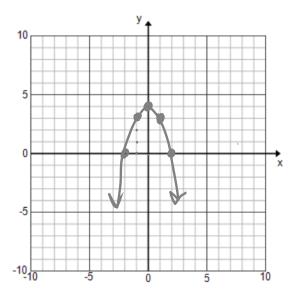
Graph the following Quadratic Functions.

9.
$$y = (x - 3)^2 - 6$$

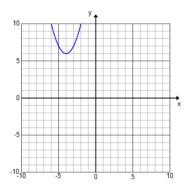




10.
$$y = -x^2 + 4$$
 reflect x -axis



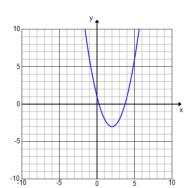
11-13: State the Domain, Range, and End Behavior of the following Quadratic Functions:



Domain: $(-\infty, \infty)$ Range: $[6, \infty)$

As $x \to \infty$, $y \to \underline{\hspace{1cm}}$

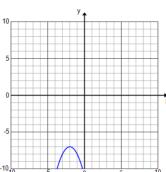
As $x \to -\infty$, $y \to \underline{\hspace{1cm}}$



Domain: $(-\infty, \infty)$ Range: $[-3(\infty)]$

As $x \to \infty$, $y \to \underline{\hspace{1cm}}$

As $x \to -\infty$, $y \to \underline{\hspace{1cm}}$



Domain: $(-\infty, \infty)$ Range: $(-\infty, -7)$

As $x \to \infty$, $y \to \underline{\hspace{1cm}}$

As $x \to -\infty$, $y \to -\infty$