NAME:

UNIT 8 – GRAPHING QUADRATICS

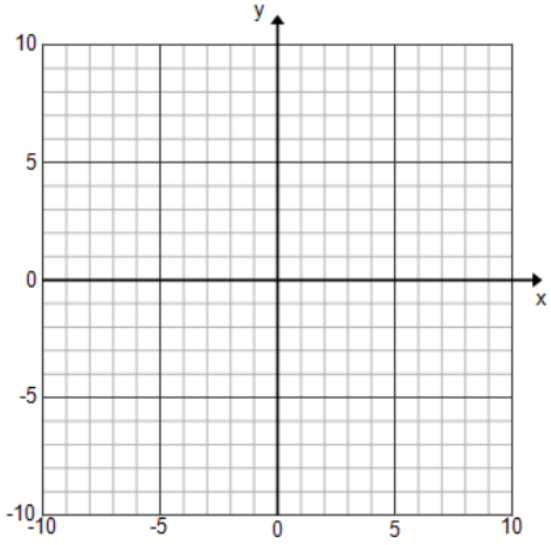
STUDY GUIDE FOR QUIZ #1

Describe in words how the parent function would be transformed.

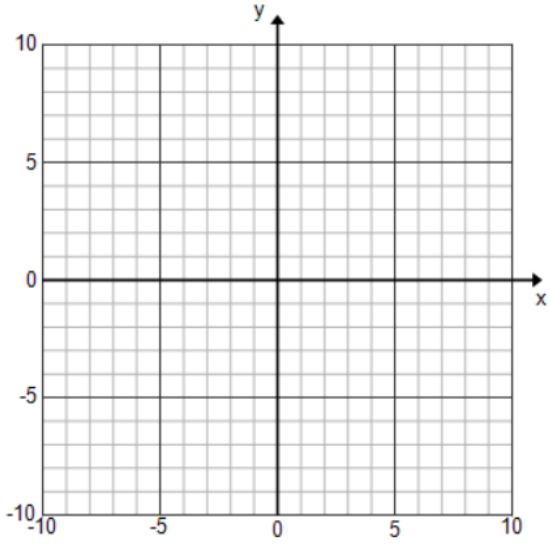
1. $y = 5x^2$
2. $y = -1/2x^2$
3. $y = (x - 5)^2$
4. $y = -x^2 - 12$
5. $y = 5(-x)^2$
6. $y = (x + 12)^2 + 16$

Graph the following Quadratic Functions.

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



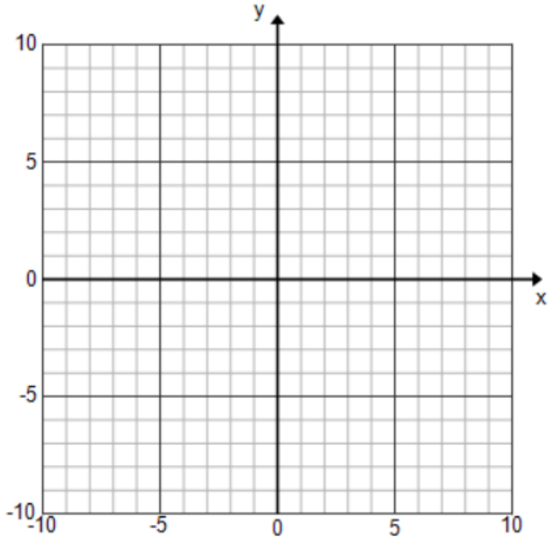
8. $y = 2x^2$

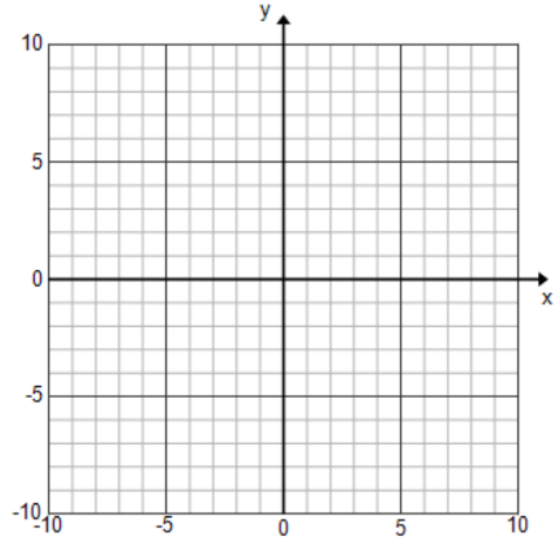


Graph the following Quadratic Functions.

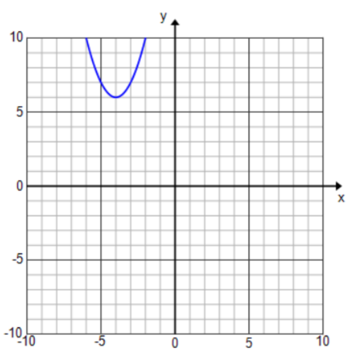
9. $y = (x - 3)^2 - 6$

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

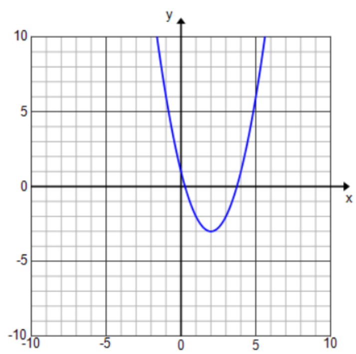




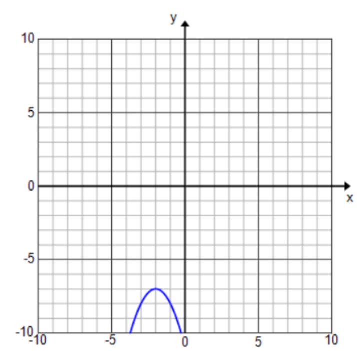
11-13: State the Domain, Range, and End Behavior of the following Quadratic Functions:



Domain: ________________
Range: __________________
As $x \to \infty$, $y \to$ _______
As $x \to -\infty$, $y \to$ ______



Domain: ________________
Range: __________________
As $x \to \infty$, $y \to$ _______
As $x \to -\infty$, $y \to$ ______



Domain: ________________
Range: __________________
As $x \to \infty$, $y \to$ _______
As $x \to -\infty$, $y \to$ ______