

Names: \_\_\_\_\_

Quadratics Exploration:

1. Graph  $y=x^2$  (this is the parent function)
2. Graph a quadratic function that has a y-intercept that is higher than the parent function

Function 1: \_\_\_\_\_

What changed between the parent function's equation and function 1?

3. Graph a quadratic function that is a reflection of the parent function

Function 2: \_\_\_\_\_

What changed between the parent function's equation and function 2?

4. Graph a quadratic function that is wider than the parent function

Function 3: \_\_\_\_\_

What changed between the parent function's equation and function 3?

5. Graph a quadratic function that is thinner than the parent function

Function 4: \_\_\_\_\_

What changed between the parent function's equation and function 4?

6. Graph a quadratic function that slides to the left of the parent function

Function 5: \_\_\_\_\_

What changed between the parent function's equation and function 5?

