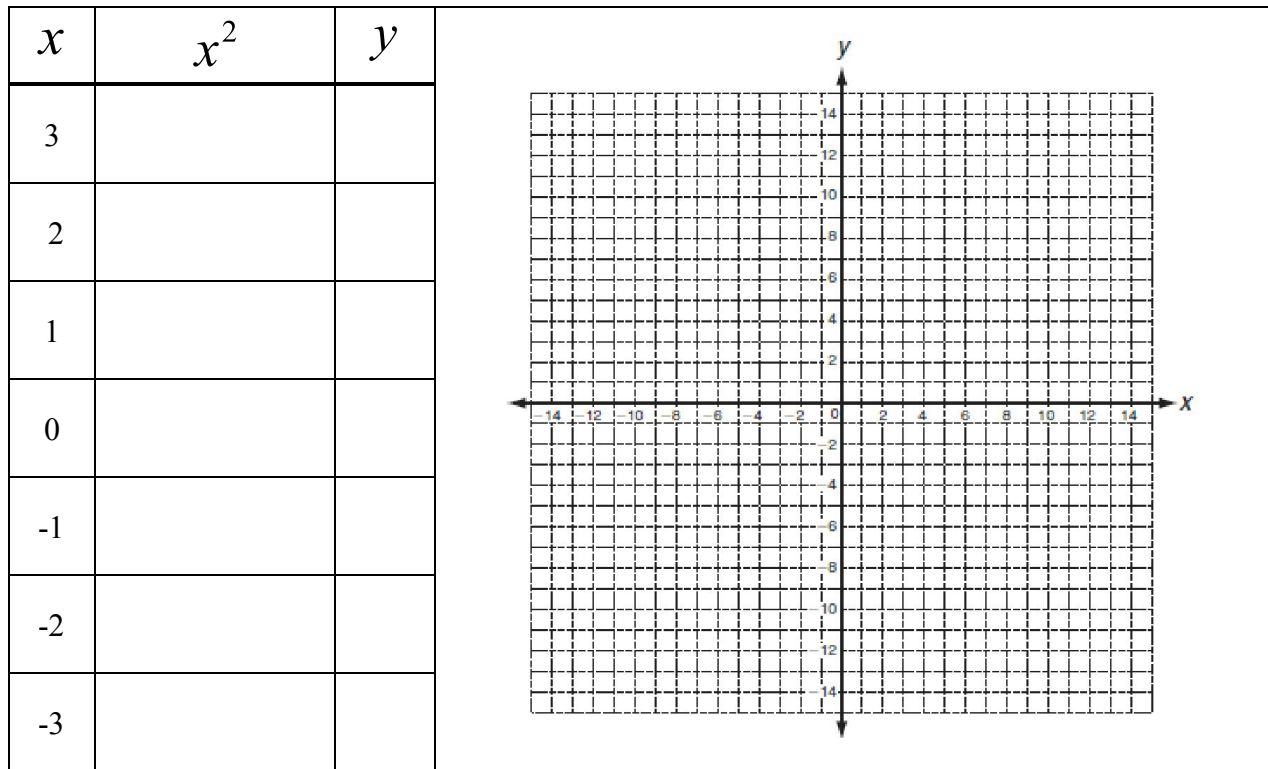


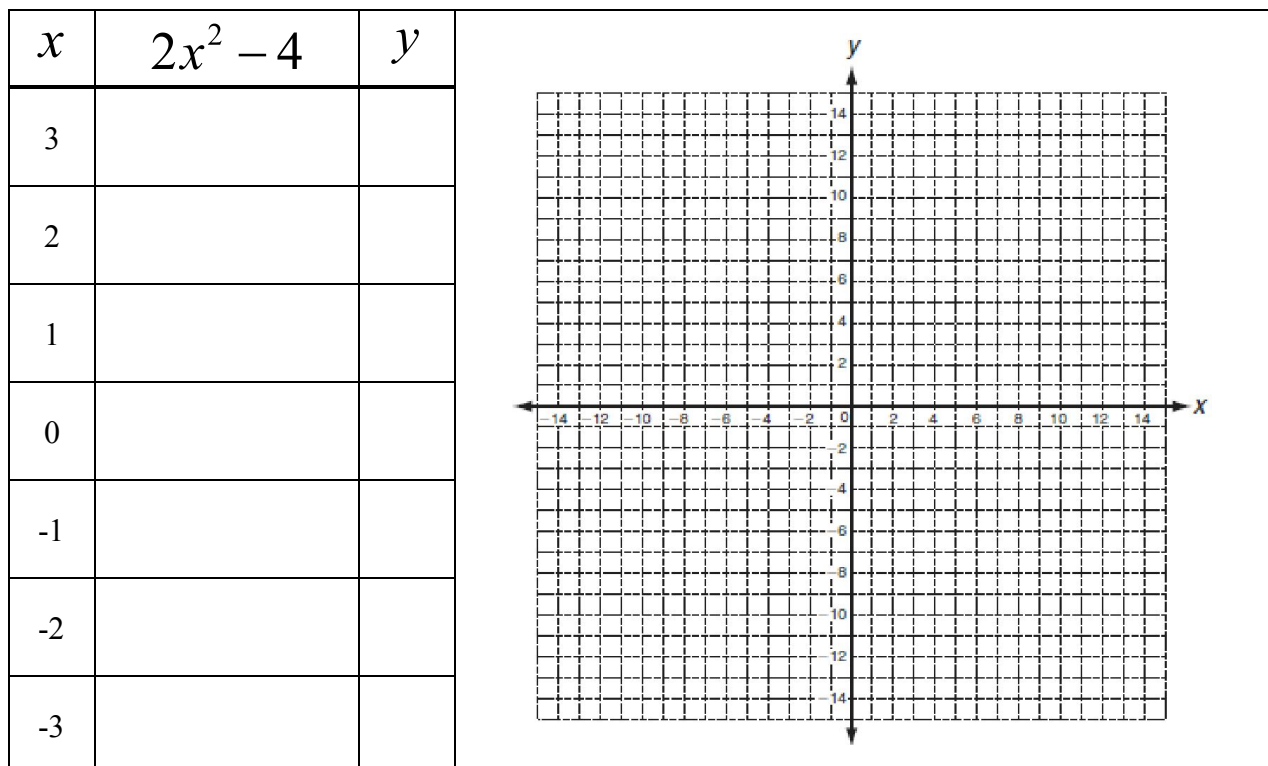
## Quadratic Function Worksheet

Complete the table for each quadratic function, and then graph the parabola.

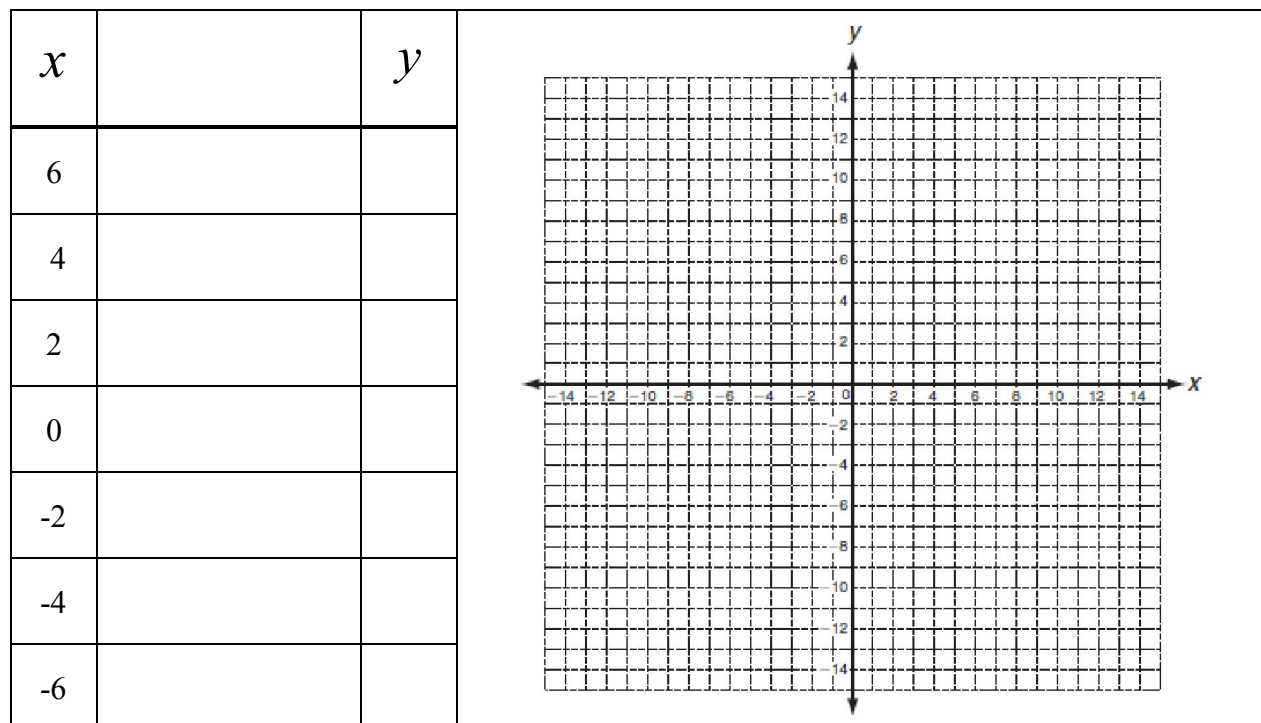
A.)  $y = x^2$



B.)  $y = 2x^2 - 4$



c.)  $y = -\frac{1}{2}x^2 + 3$



1. At what value does each graph cross the y-axis?

Graph A: \_\_\_\_\_ Graph B: \_\_\_\_\_ Graph C: \_\_\_\_\_

2. Do you see this “y-intercept” value in each corresponding equation?

3. If so, where?

4. In which direction does each graph “open”?

Graph A: \_\_\_\_\_ Graph B: \_\_\_\_\_ Graph C: \_\_\_\_\_

5. Which value on each equation do you think determines the direction a graph opens?

6. What is the “leading coefficient” of each equation?

Equation A: \_\_\_\_\_ Equation B: \_\_\_\_\_ Equation C: \_\_\_\_\_

7. Identify the leading coefficient and y-intercept of :  $y = ax^2 + bx + c$  .