

1. Decide if the graph of the parabola opens up or down in each quadratic function and find the vertex

a. $y = -5x^2 + 10x - 2$

b. $y = (x + 1)^2 - 4$

2. Find the x and y-intercepts on the graphs.

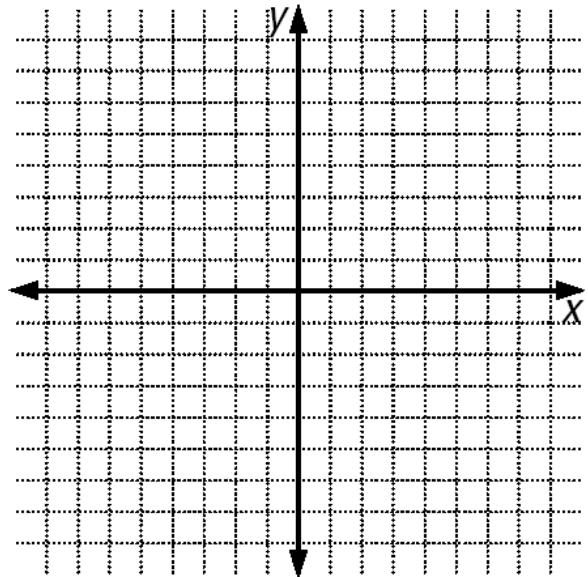
a. $y = -5x^2 + 10x - 2$

b. $y = (x + 1)^2 - 4$

3. Graph the quadratic function. Include a table.

Use the vertex, the y-intercept and it's reflection
Draw and label the axis of symmetry.

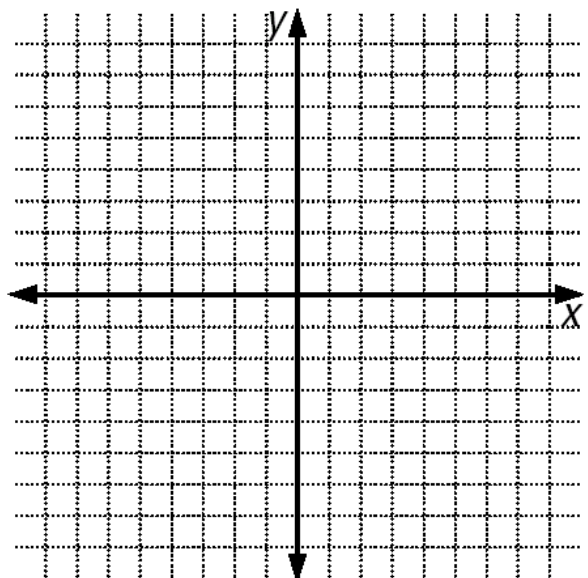
$y = x^2 + 4x - 1$



4. Graph the quadratic function. Include a table.

Use the vertex, the y-intercept and it's reflection
Draw and label the axis of symmetry.

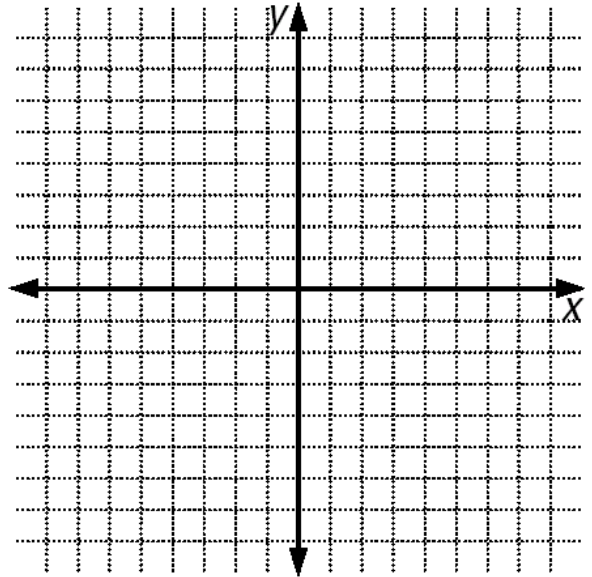
$y = -\frac{1}{3}(x - 3)^2 + 1$



5. Graph the quadratic function. Include a table.

Use the vertex, the y-intercept and it's reflection
Draw and label the axis of symmetry.

$$y = 2x^2 - 8x + 3$$



6. Graph the quadratic function. Include a table.

Use the vertex, the y-intercept and it's reflection
Draw and label the axis of symmetry.

$$y = -(x - 4)^2 + 2$$

