

Find and label the vertex, axis of symmetry, and intercepts.

In equations,  $y = ax^2 + bx + c$ , use  $-b/2a$  to find the vertex.

1. Graph the parabola  $y = x^2 - 4x + 3$

2. Graph the parabola  $y = -2x^2 + 4x + 6$

3. Graph the parabola  $y = 3x^2 + 6x - 9$

4. Graph the parabola  $y = -x^2 + 2x - 1$

5. Graph the parabola  $y = 2x^2 - 8x + 6$

6. Graph the parabola  $y = x^2 - 3$

7. Graph the parabola  $y = -x^2 + 5$

8. Graph the parabola  $y = x^2 + 4x + 4$

9. Graph the parabola  $y = -2x^2 + 8x - 6$

10. Graph the parabola  $y = x^2 + 2x + 1$