

Day 1: Graphing Quadratics Review

1) Factored Form: $y = A(x - r)(x - s)$

Finding x -intercept(s):

Finding y -intercept:

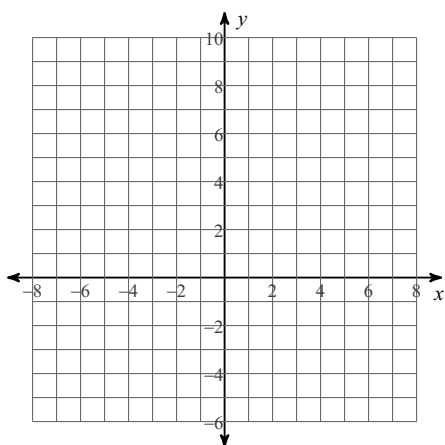
Finding the Axis of Symmetry (A of S):

Finding the maximum or minimum:

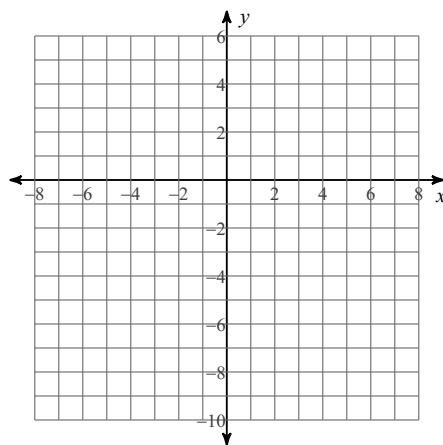
Finding the Vertex:

Graph each quadratic equation. List all key features.

2) $f(x) = -\frac{1}{2}(x - 4)(x + 4)$



3) $y = 2(x - 3)(x + 1)$



We have learned to graph quadratics in 3 different forms. . . We will review today how to graph each form.

4) Standard Form: $y = Ax^2 + Bx + C$

Finding the Axis of Symmetry (A of S):

Finding the maximum or minimum:

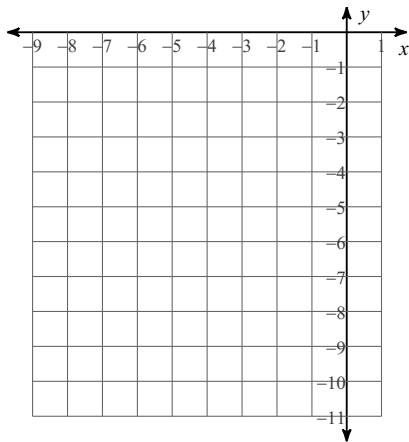
Finding the Vertex:

Finding x -intercept(s):

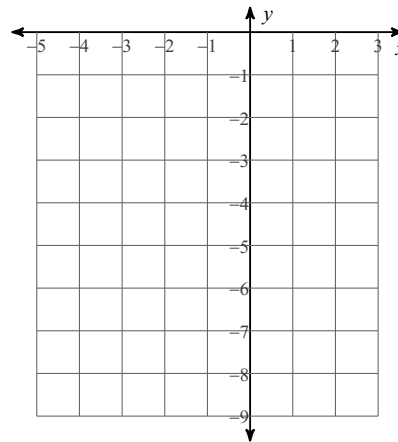
Finding y -intercept:

Graph each quadratic equation. List all key features.

5) $y = -2x^2 - 12x - 20$



6) $f(x) = -x^2 - 2x - 5$



7) Vertex Form: $y = A(x - h)^2 + k$

Finding the Vertex:

Finding the maximum or minimum:

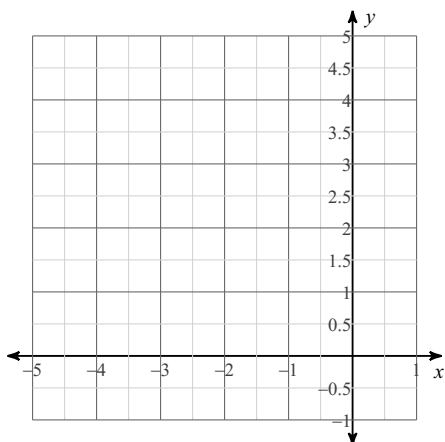
Finding the Axis of Symmetry (A of S):

Finding x-intercept(s):

Finding y-intercept:

Sketch the graph of each quadratic equation. List the x-intercept(s), y-intercept, vertex, and axis of symmetry.

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



9) $f(x) = 2(x + 2)^2 - 4$

