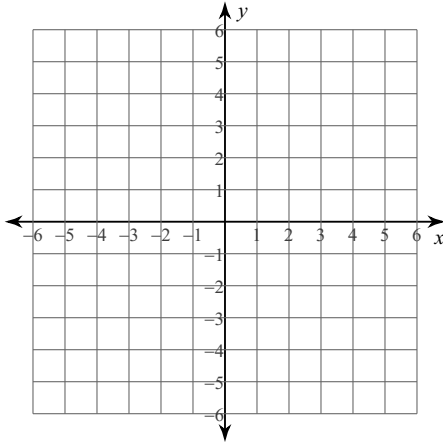


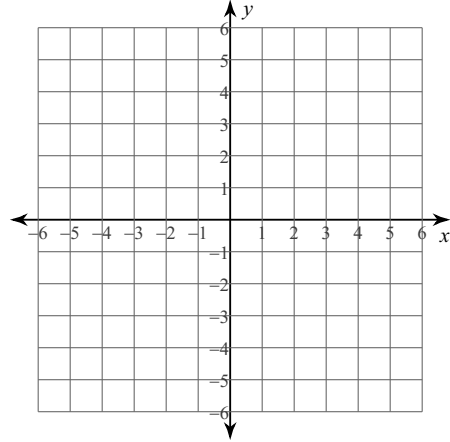
# Graphing Quadratics Review

Sketch the parent graph then sketch the given equation. You can use transformations or make a table to find points on the graph.

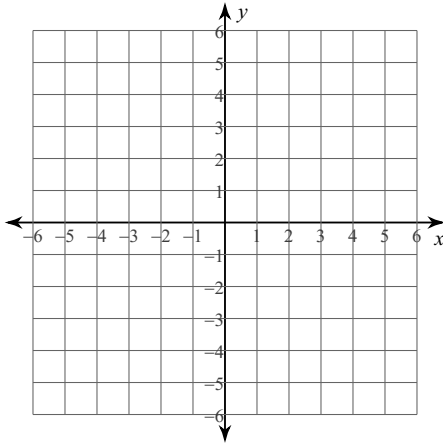
1)  $y = -|x - 4| + 2$



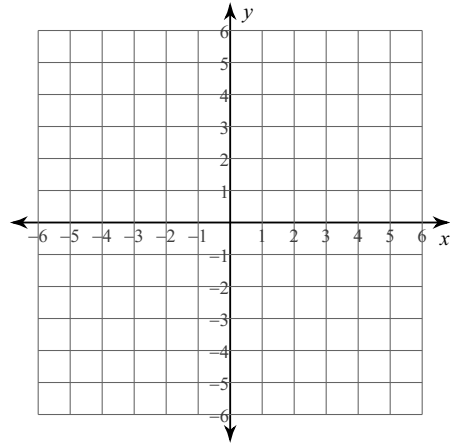
2)  $14x - 10y + 50 = 0$



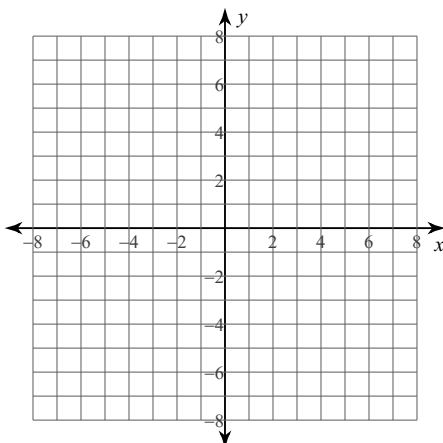
3)  $y = 2|x + 3|$



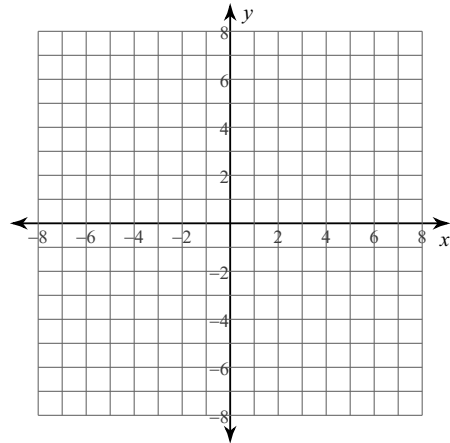
4)  $y = -3|x - 1| - 3$



5)  $y = \sqrt{x}$

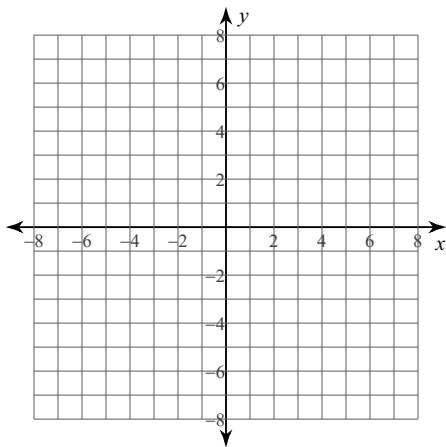


6)  $f(x) = x^3 - x^2$

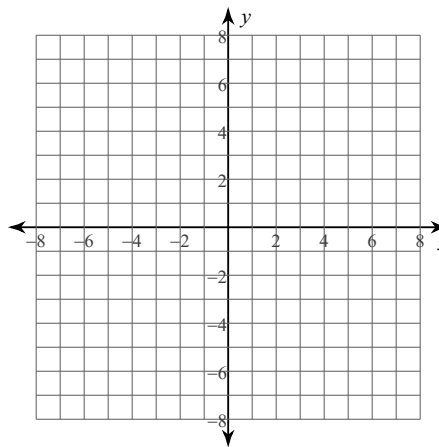


Identify the vertex and axis of symmetry of each. Then sketch the graph and state where the graph is increasing or decreasing using interval notation.

7)  $y = x^2 + 8x + 13$



8)  $y = -2(x - 5)^2 - 5$



For the given equation: a) find the x- and y-intercepts, b) find the vertex, c) make a table of these points plus at least two more values for x, d) state whether the graph has a maximum or minimum point, e) state where the graph is positive and negative using interval notation, f) state where the graph is increasing and decreasing using inequality statements, g) write the equation in vertex form, h) describe the transformations using bullet points, i) sketch the graph.

9)  $y = -x^2 - 12x - 34$

