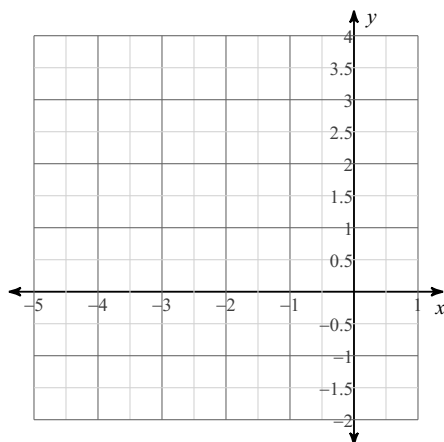


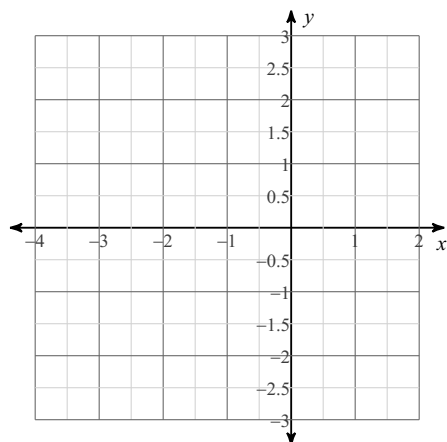
8.6 Quadratics in Vertex Form (Day 2)

Write each quadratic equation in vertex form. Identify the vertex and state whether the vertex is a maximum or minimum.

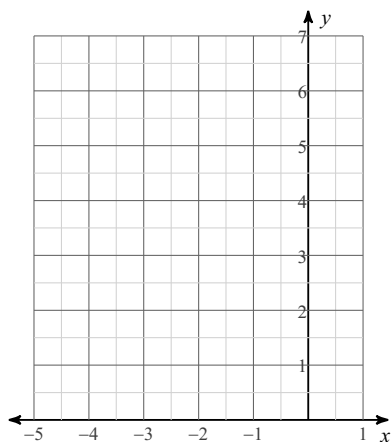
1) $y = x^2 + 4x + 3$



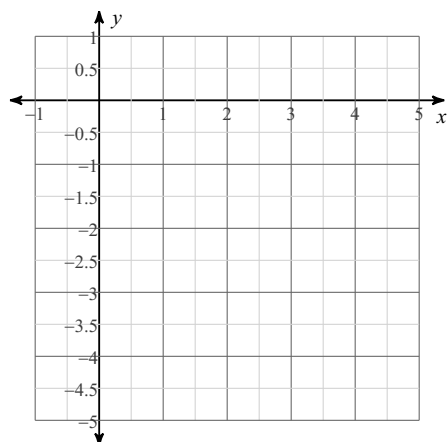
2) $y = x^2 + 4x + 2$



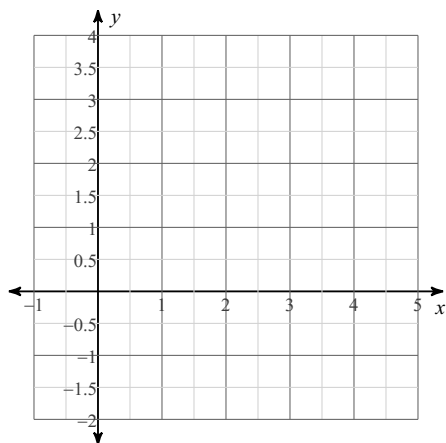
3) $y = x^2 + 6x + 11$



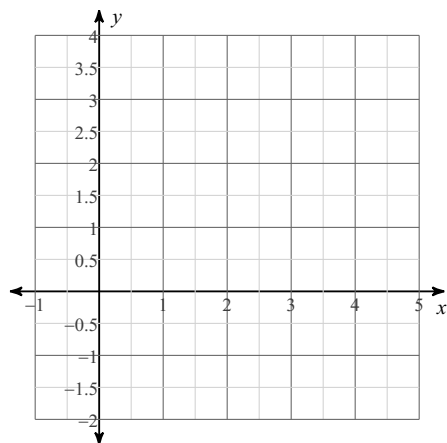
4) $y = x^2 - 6x + 5$



5) $y = x^2 - 4x + 3$

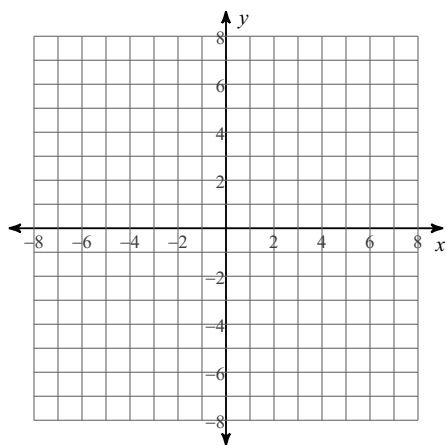


6) $y = x^2 - 2x$

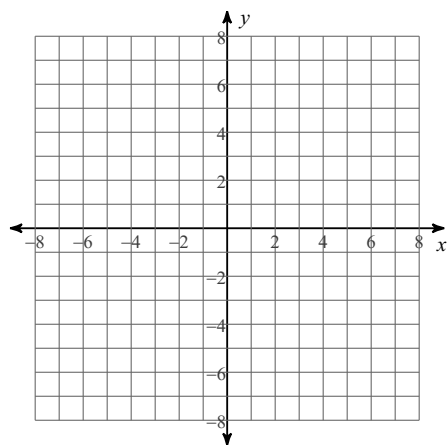


Identify the vertex, axis of symmetry, and min/max value of each. Then sketch the graph.

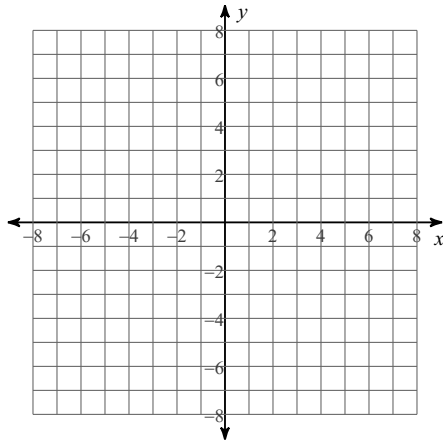
7) $y = x^2 - 4x + 1$



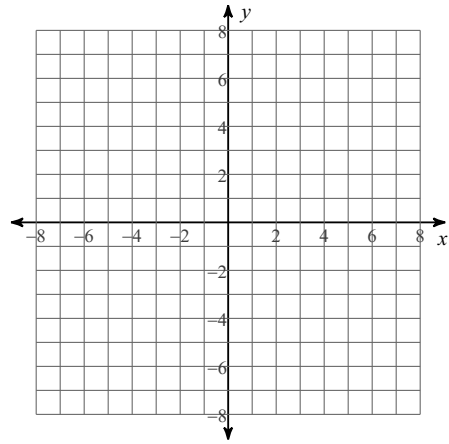
8) $y = x^2 + 2x - 2$



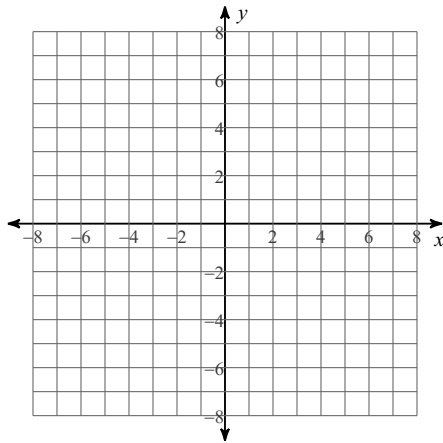
9) $y = x^2 + 2x - 5$



10) $y = x^2 + 10x + 28$



11) $y = x^2 - 2x - 1$



12) $y = x^2 + 10x + 25$

