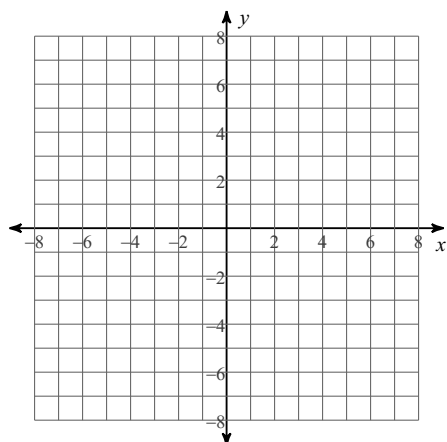


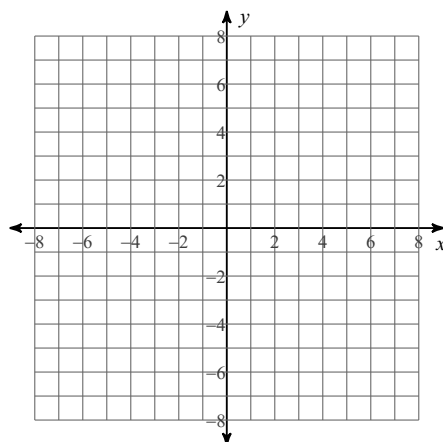
Worksheet 18 - Lesson 54

Identify the vertex, axis of symmetry, min/max value, intercepts on the axis parallel to the axis of symmetry, and intercepts on the axis perpendicular to the axis of symmetry of each. Then sketch the graph.

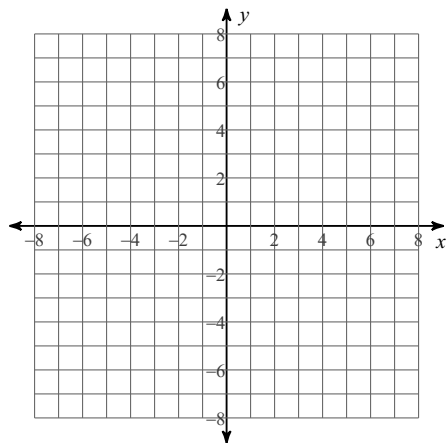
1) $f(x) = (x - 2)^2 + 1$



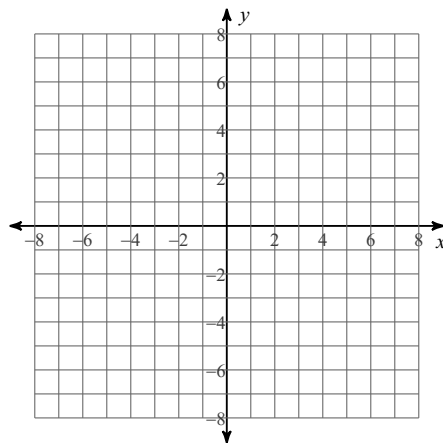
2) $f(x) = -x^2 + 1$



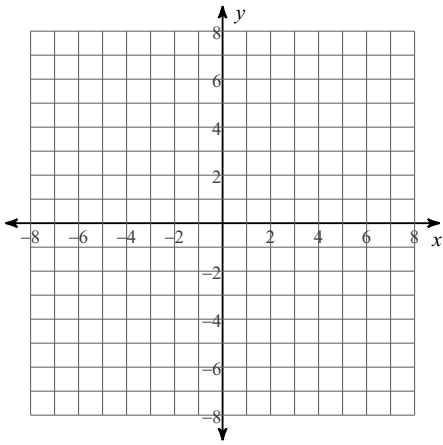
3) $f(x) = -x^2 - 6x - 10$



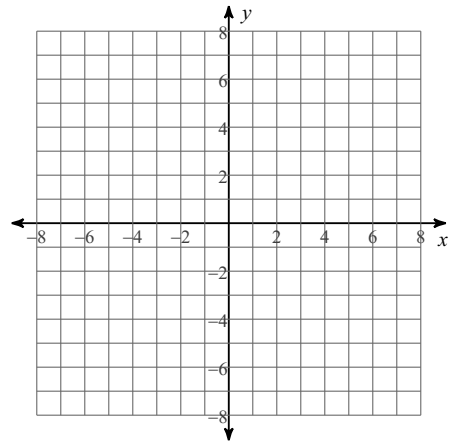
4) $f(x) = x^2 - 2x + 1$



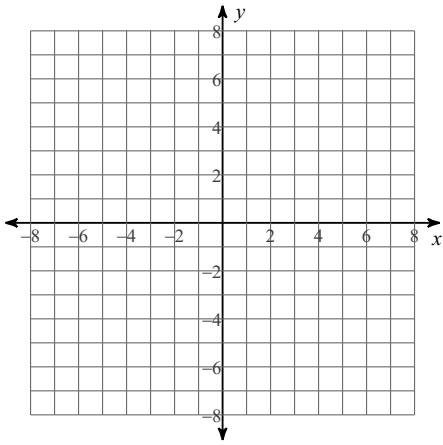
5) $y = 2(x - 1)(x + 3)$



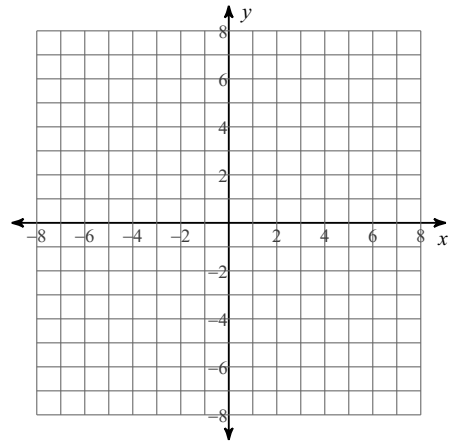
6) $y = -(x + 4)(x + 2)$



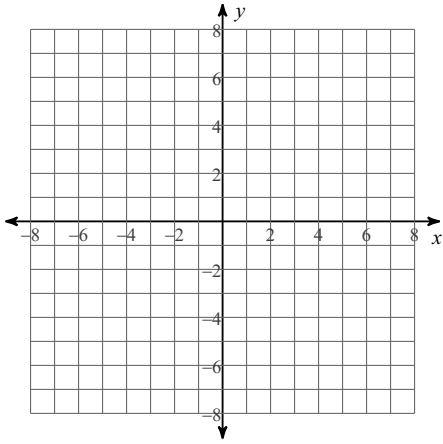
7) $x = 2(y + 5)^2$



8) $x = -(y - 3)^2 - 1$



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



10) $f(y) = \frac{1}{2}y^2 - 4y + 8$

