5-3 Graphing Quadratics from Standard Form

Period____

Identify the vertex and axis of symmetry of each.

1) $f(x) = -x^2 + 8x - 21$

2) $f(x) = x^2 + 20x + 97$

3) $f(x) = x^2 + 4x + 14$

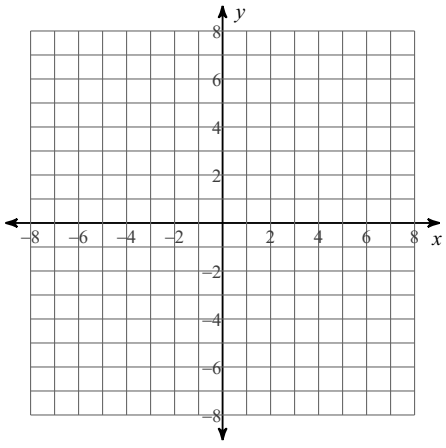
4) $f(x) = -2x^2 - 32x - 127$

5) $f(x) = -3x^2 + 1$

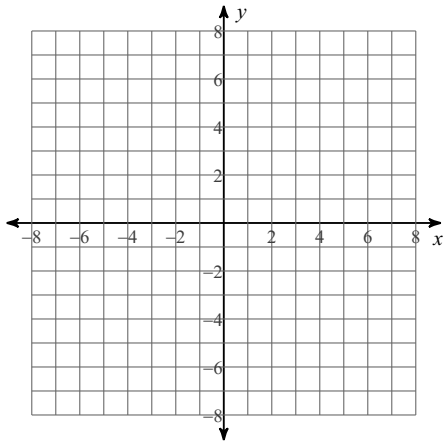
6) $f(x) = -x^2 + 12x - 38$

Identify the x-intercepts and axis of symmetry of each. Then sketch the graph.

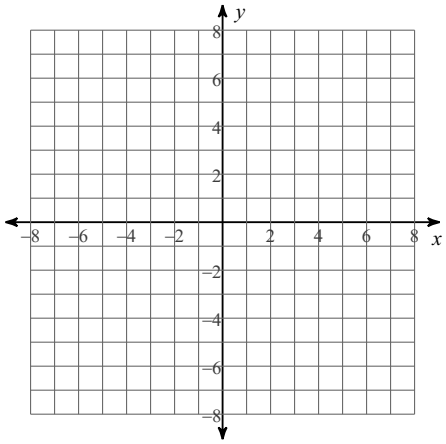
7) $y = x^2 - 12x + 35$



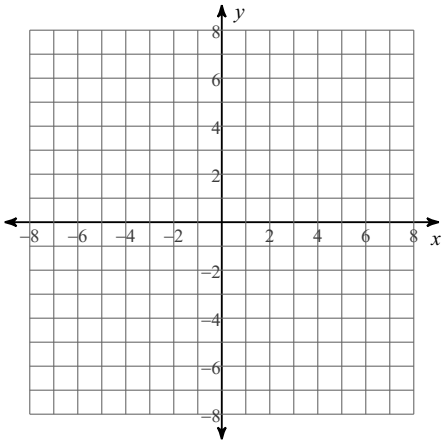
8) $y = x^2 + x - 6$



9) $y = -2x^2 - 20x - 50$

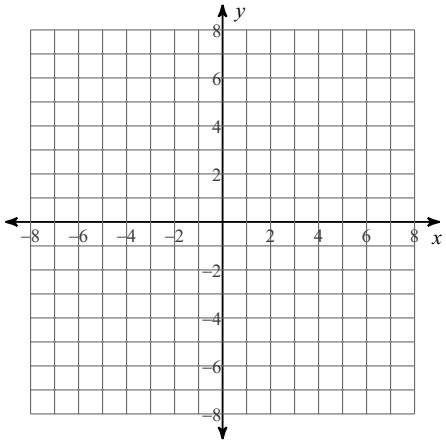


10) $y = x^2 + 11x + 30$

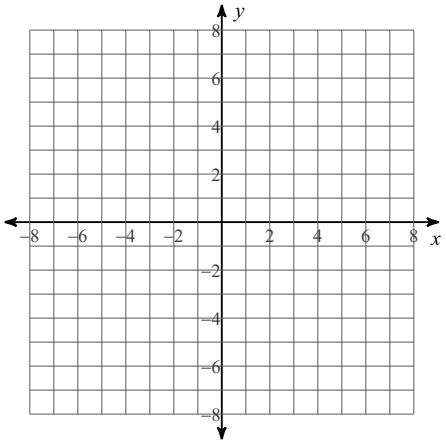


Identify the vertex, axis of symmetry, and x-intercepts of each. Then sketch the graph.

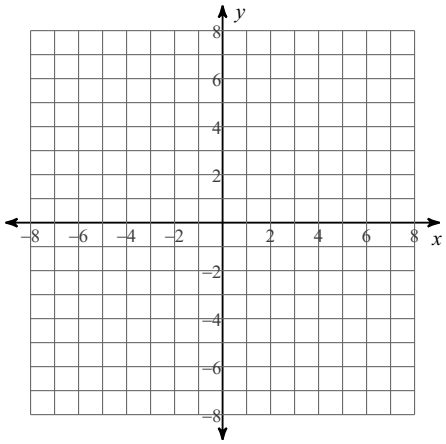
11) $f(x) = 2x^2 + 16x + 24$



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



13) $f(x) = -x^2 - 4x - 5$



14) $f(x) = -x^2 - 12x - 35$