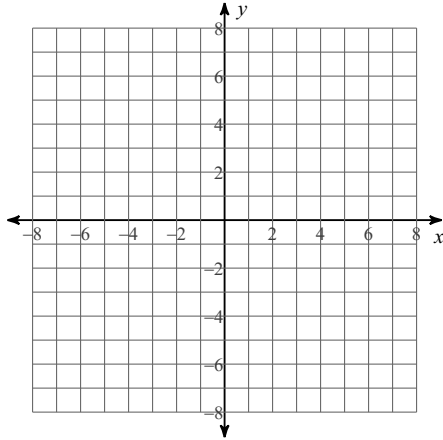


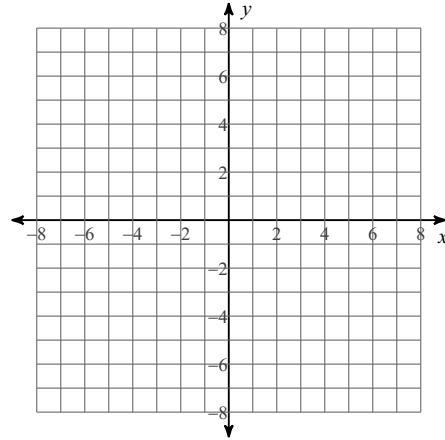
5-2 Graphing Quadratics from Vertex Form

Identify the vertex and axis of symmetry of each. Then sketch the graph.

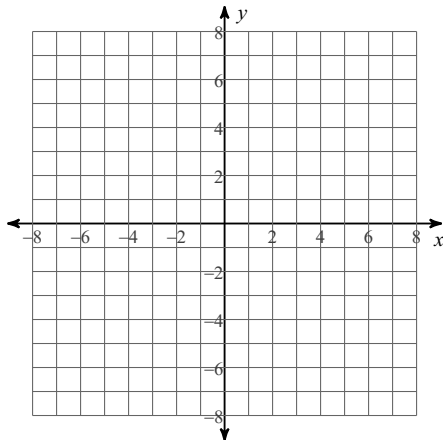
1) $y = (x - 5)^2 - 2$



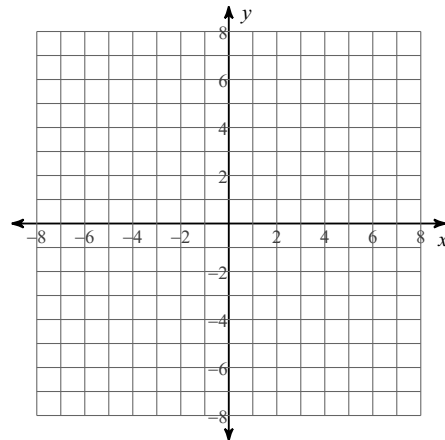
2) $y = -(x + 4)^2 + 3$



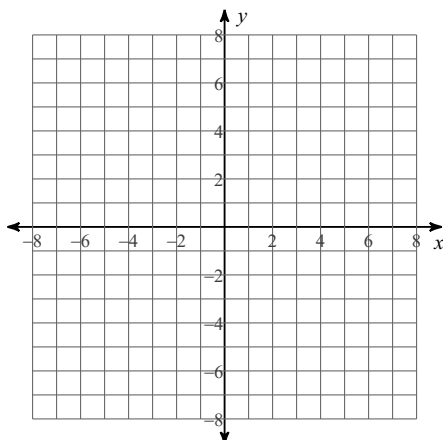
3) $y = (x - 6)^2 - 6$



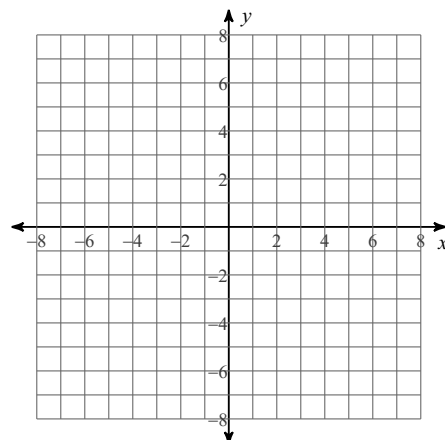
4) $y = (x + 3)^2 + 1$



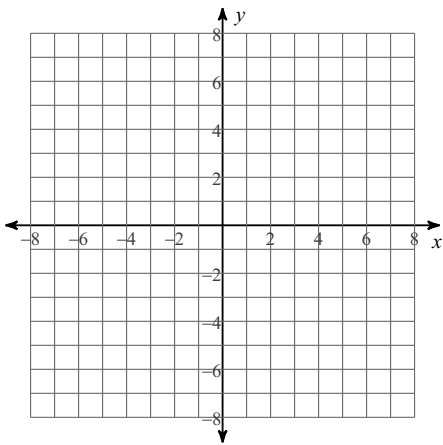
5) $y = -(x + 6)^2 + 3$



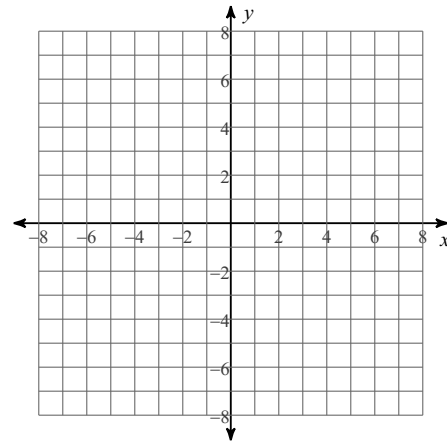
6) $y = (x - 2)^2 + 1$



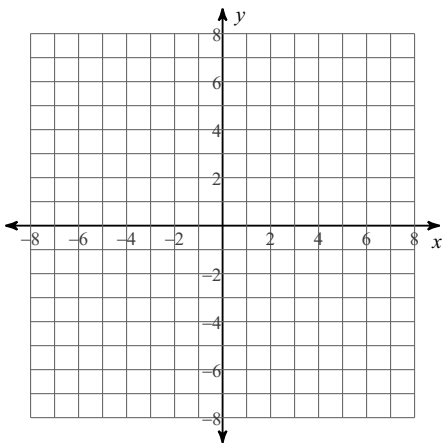
7) $y = -(x + 4)^2$



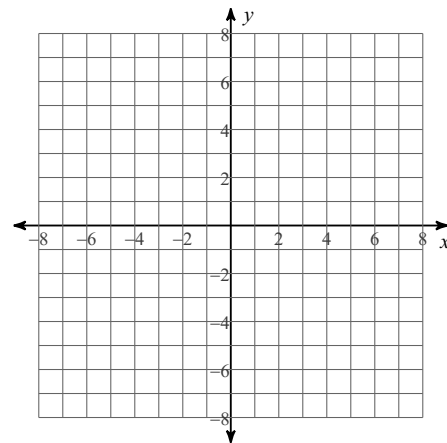
8) $y = x^2 - 1$



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



10) $y = -x^2$



Solve each equation by factoring.

11) $n^2 - 36 = 0$

12) $n^2 = -5 - 6n$

Solve each equation with the quadratic formula.

13) $8x^2 - 8x = 22$

14) $v^2 - 4 = 0$