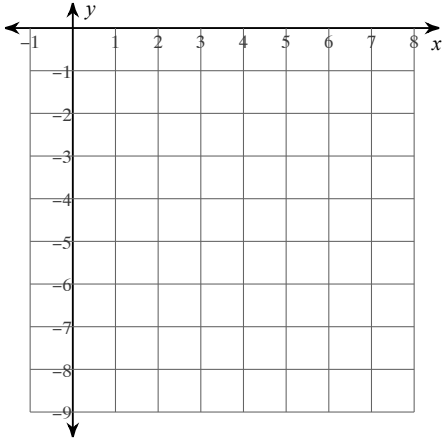


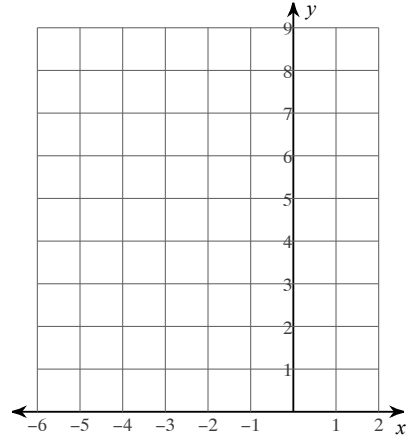
## More Practice with Vertex Form

Sketch the graph of each function.

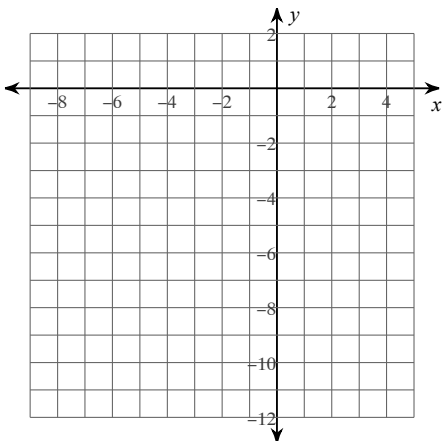
1)  $y = -(x - 4)^2 - 4$



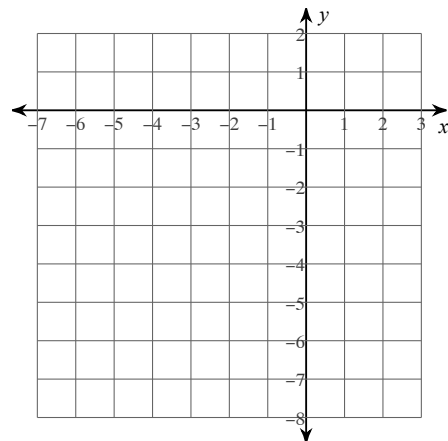
2)  $y = (x + 1)^2 + 4$



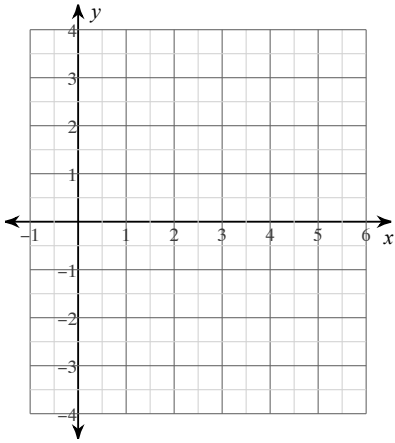
3)  $y = -3(x + 2)^2 + 1$



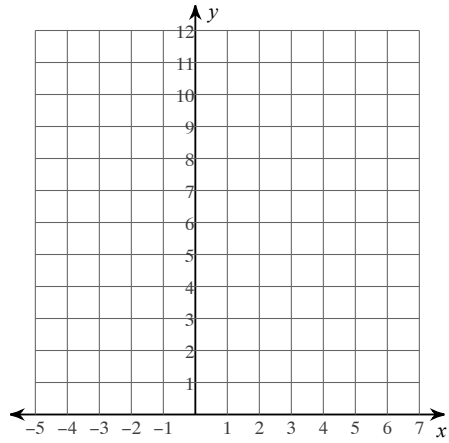
4)  $y = -2(x + 3)^2 + 1$



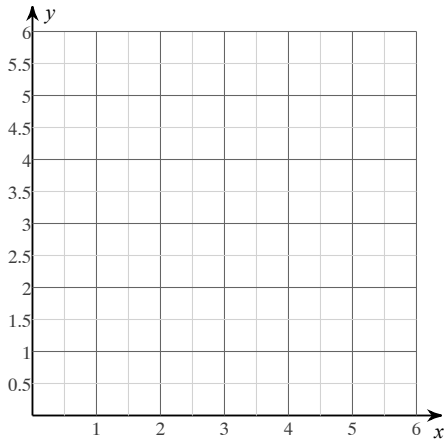
5)  $y = -(x - 4)^2 + 2$



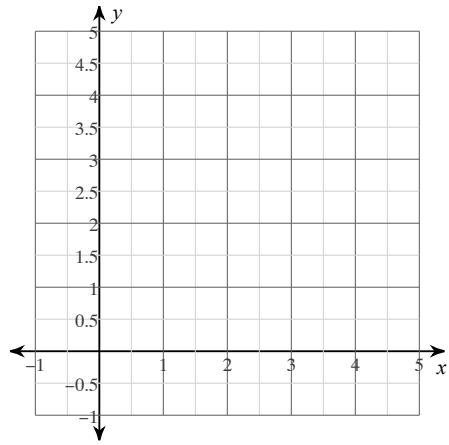
6)  $y = 2(x + 3)^2 + 3$



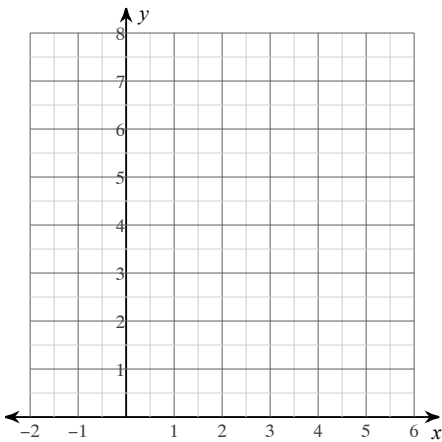
7)  $y = (x - 2)^2 + 1$



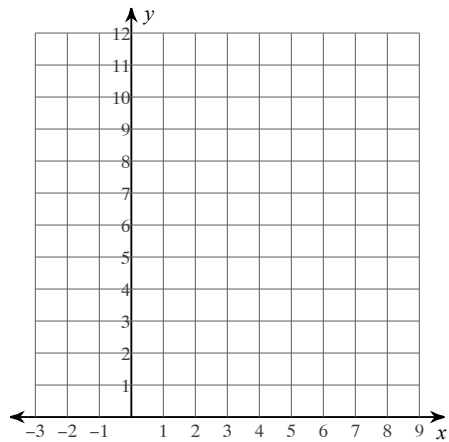
8)  $y = -(x - 2)^2 + 4$



9)  $y = (x - 1)^2 + 3$

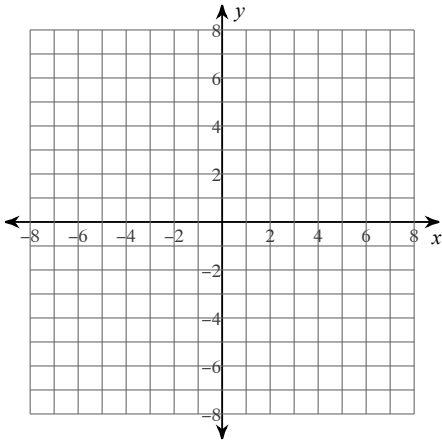


10)  $y = 2(x - 2)^2 + 3$

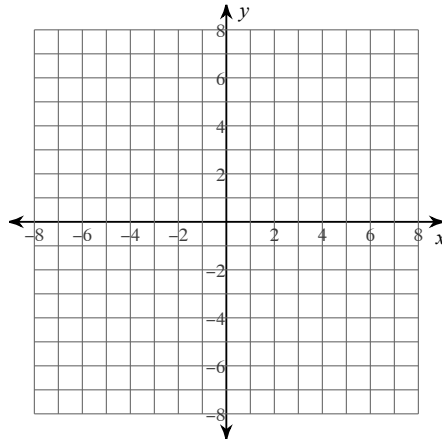


Identify the vertex, axis of symmetry, direction of opening, min/max value, y-intercept, and x-intercepts of each. Then sketch the graph.

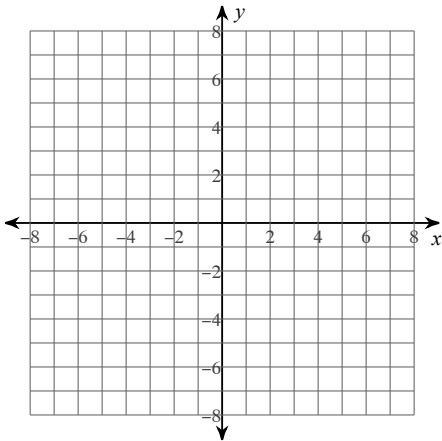
11)  $y = (x + 1)^2 + 3$



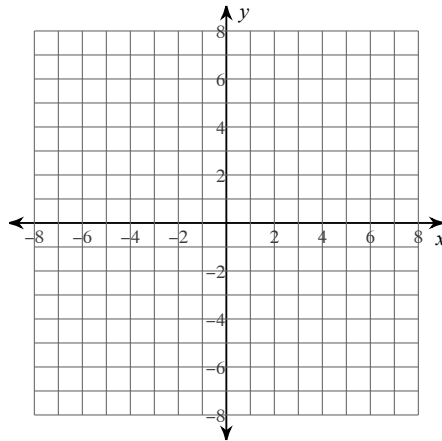
12)  $y = x^2 - 1$



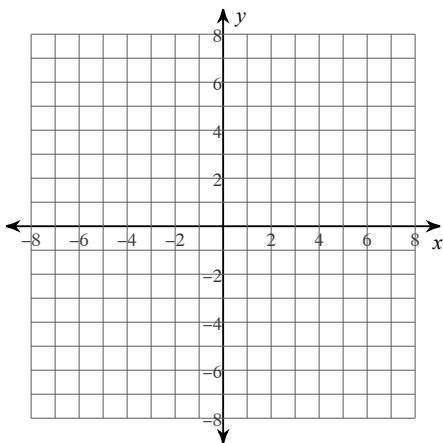
13)  $y = -2(x + 1)^2 - 1$



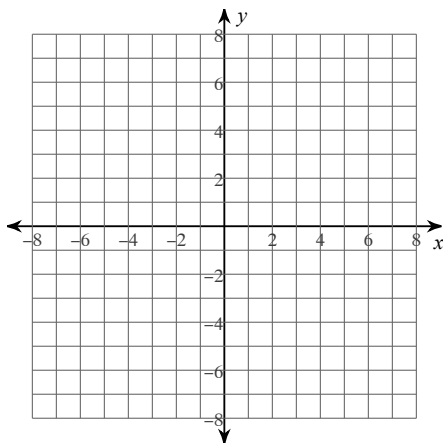
14)  $y = (x + 5)^2 + 3$



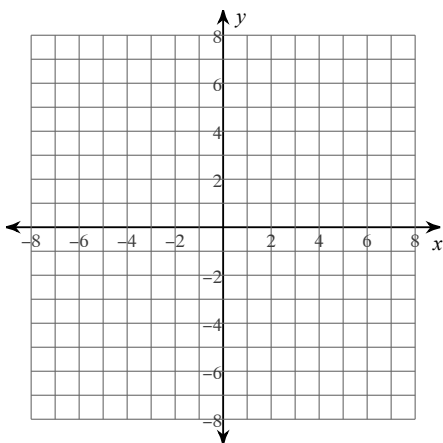
15)  $y = -(x + 3)^2 + 4$



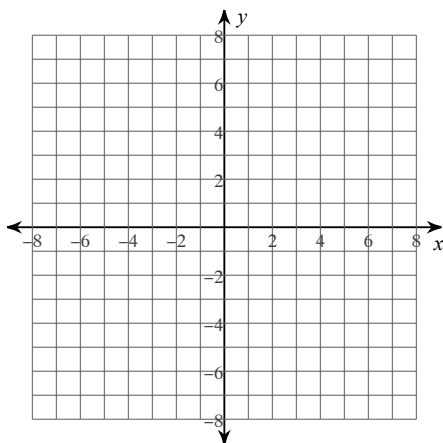
16)  $y = -(x - 1)^2 + 1$



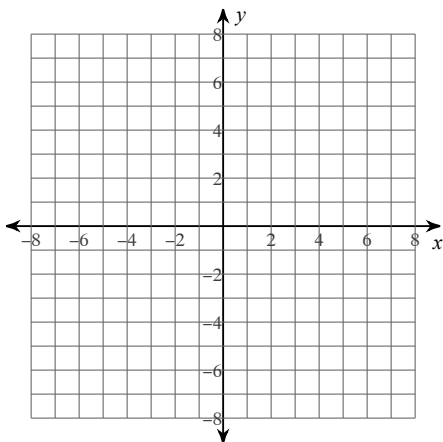
17)  $y = 2(x + 4)^2 - 8$



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



19)  $y = -x^2$



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

