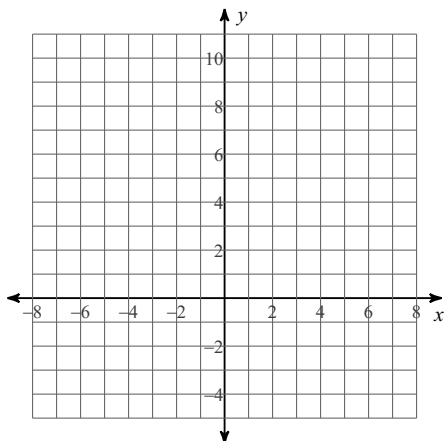


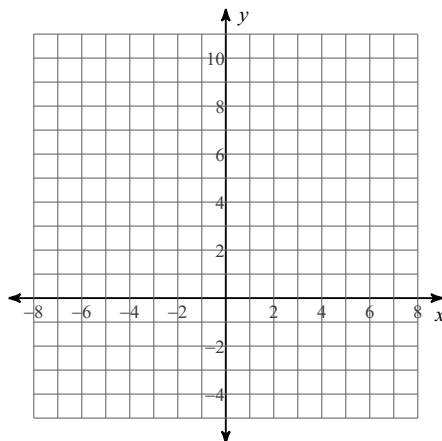
# Graphing Quadratics from Vertex Form

**CLASS EXAMPLES: Sketch the graph of each function.**

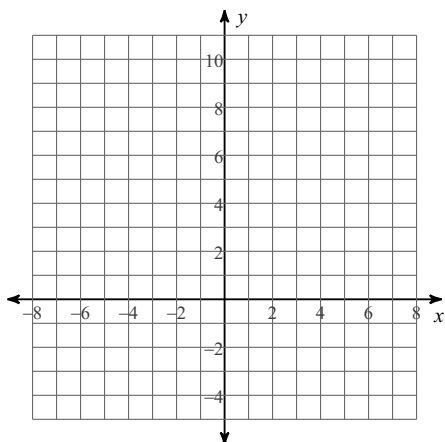
1)  $f(x) = x^2$



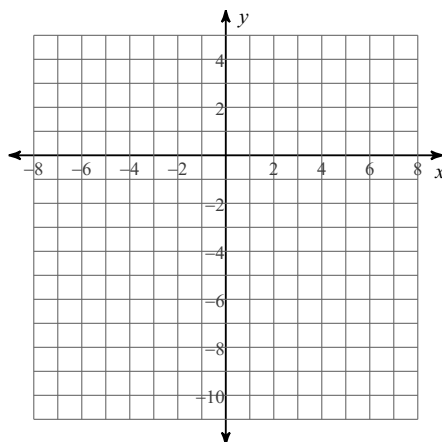
2)  $f(x) = x^2 + 3$



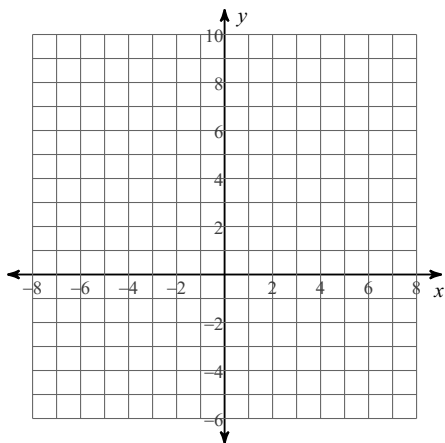
3)  $f(x) = (x - 2)^2$



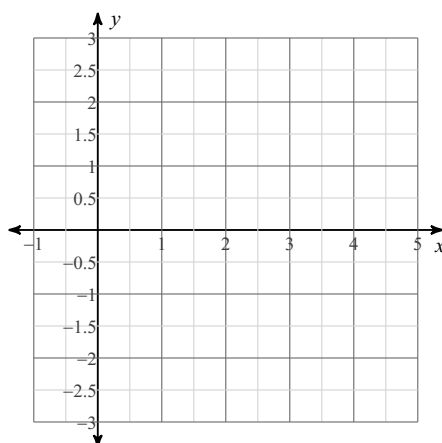
4)  $f(x) = -(x + 4)^2 - 1$



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

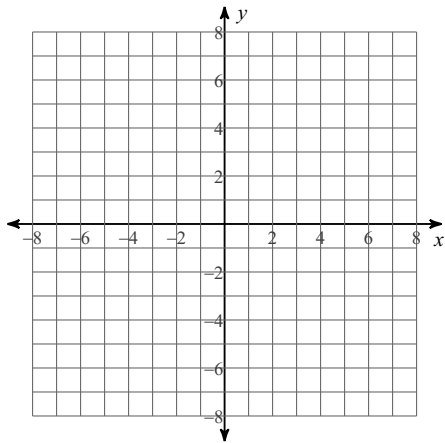


6)  $f(x) = -\frac{1}{2}(x - 2)^2 + 1$

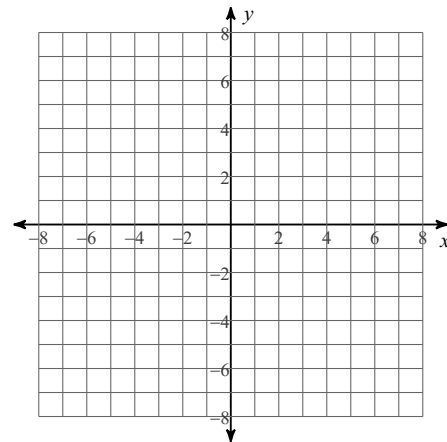


Sketch the graph of each function.

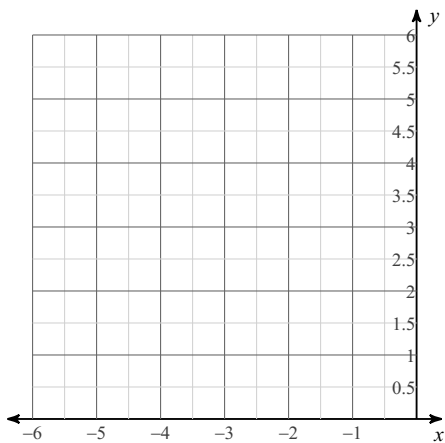
7)  $f(x) = -\frac{1}{2}x^2 + 4$



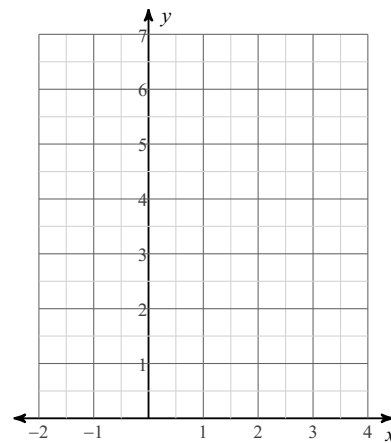
8)  $f(x) = x^2 - 3$



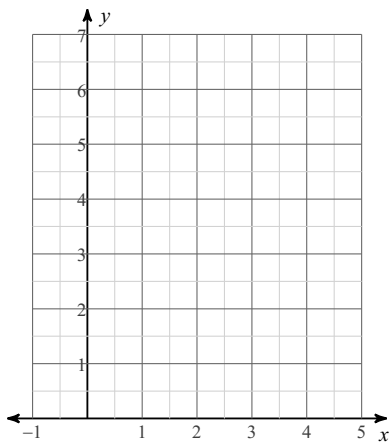
9)  $f(x) = (x + 3)^2 + 1$



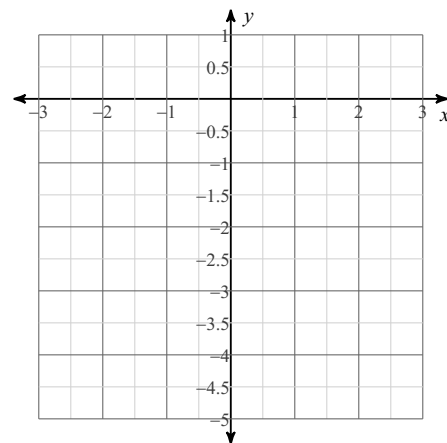
10)  $f(x) = (x - 1)^2 + 2$



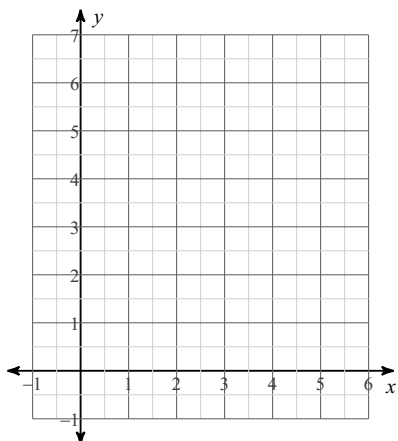
11)  $f(x) = (x - 3)^2 + 2$



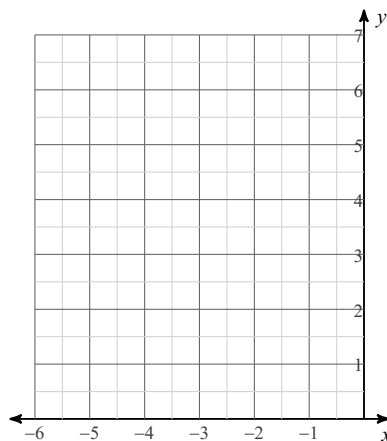
12)  $f(x) = (x + 1)^2 - 4$



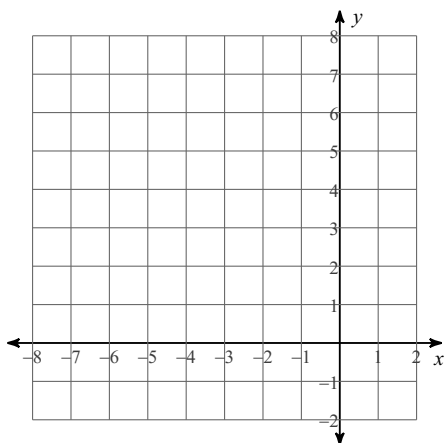
13)  $f(x) = (x - 4)^2 + 1$



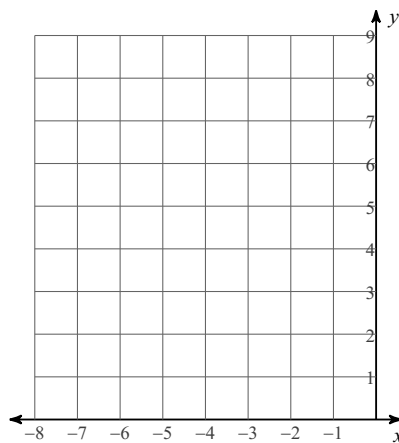
14)  $f(x) = (x + 3)^2 + 2$



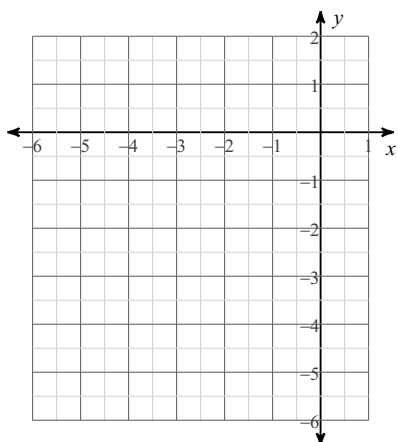
15)  $f(x) = 2(x + 3)^2 - 1$



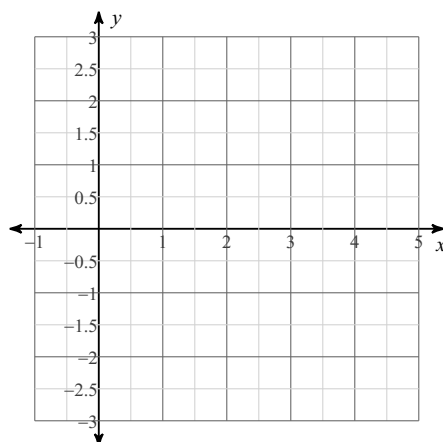
16)  $f(x) = (x + 3)^2 + 4$



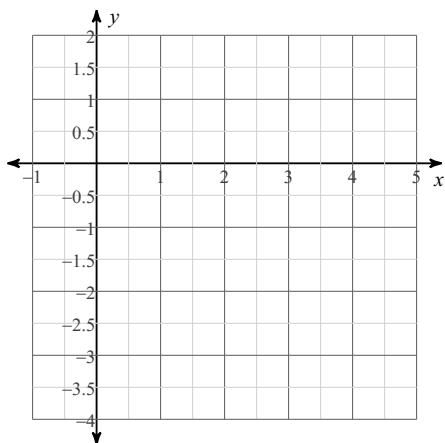
17)  $f(x) = (x + 4)^2 - 4$



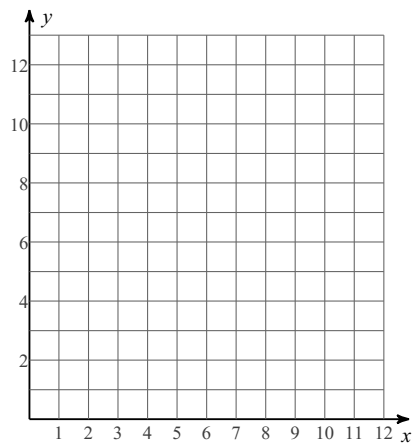
18)  $f(x) = -(x - 1)^2 + 2$



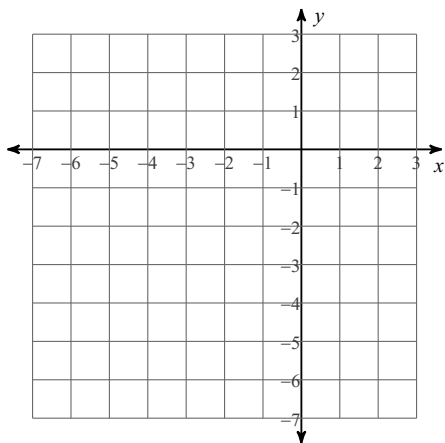
19)  $f(x) = -(x - 2)^2 + 1$



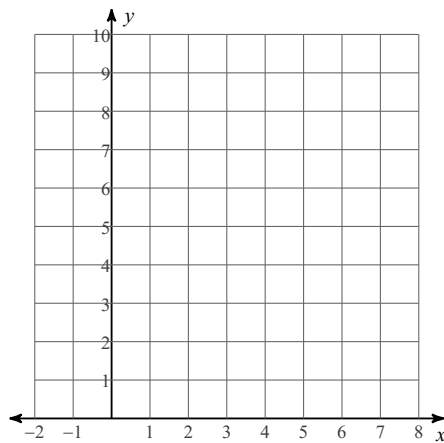
20)  $f(x) = 2(x - 3)^2 + 4$



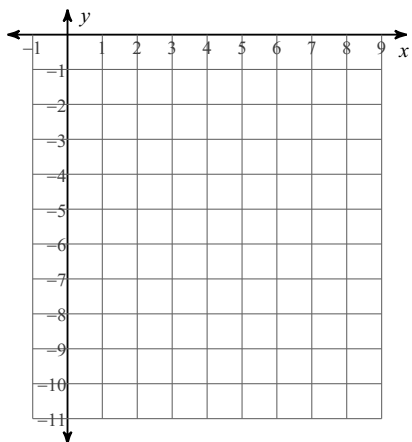
21)  $f(x) = -2(x + 1)^2 + 2$



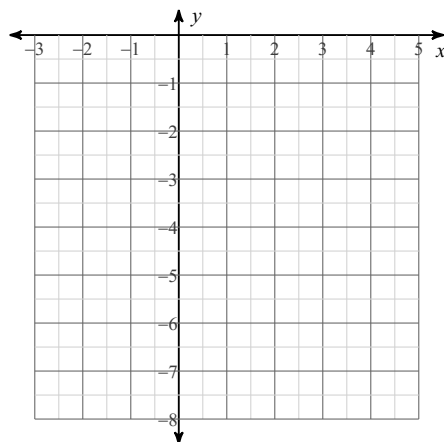
22)  $f(x) = 2(x - 3)^2 + 1$



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

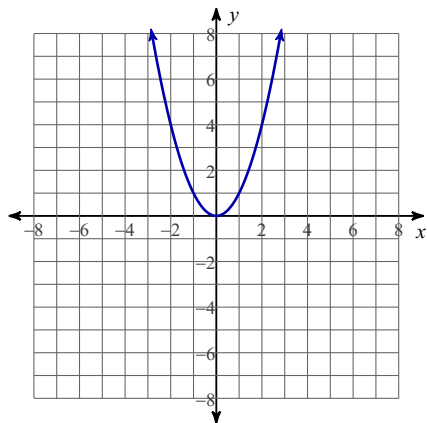


24)  $f(x) = -(x - 3)^2 - 3$

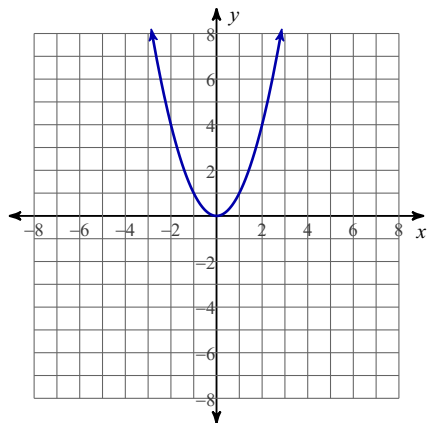


# Answers to Graphing Quadratics from Vertex Form (ID: 1)

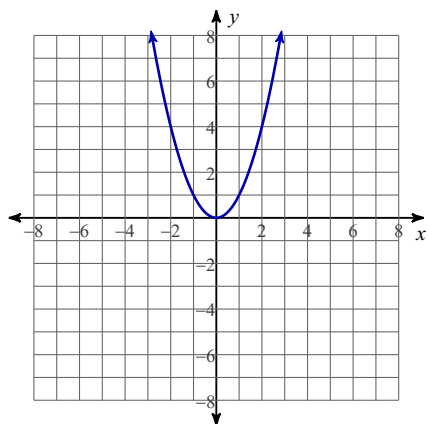
1)



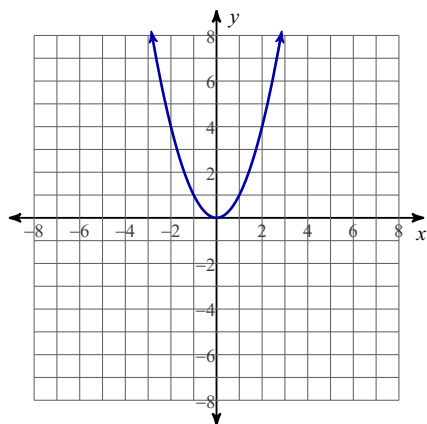
3)



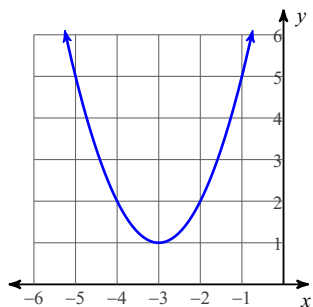
5)



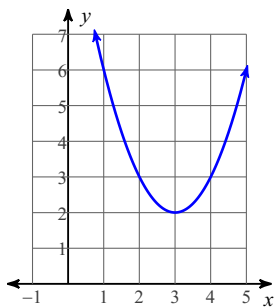
7)



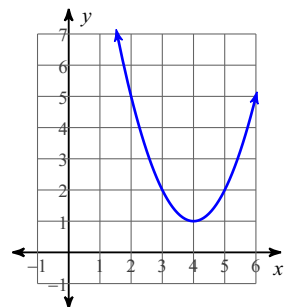
9)



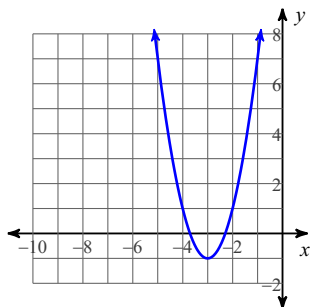
11)



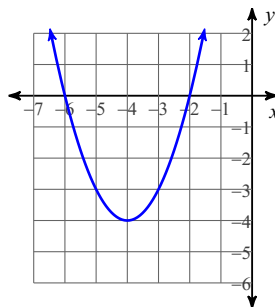
13)



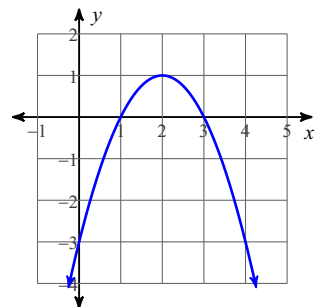
15)



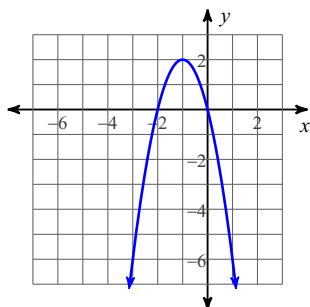
17)



19)



21)



23)

