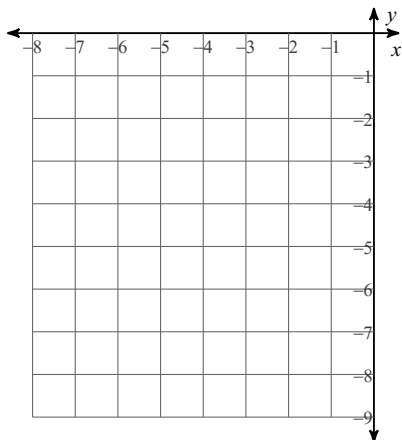


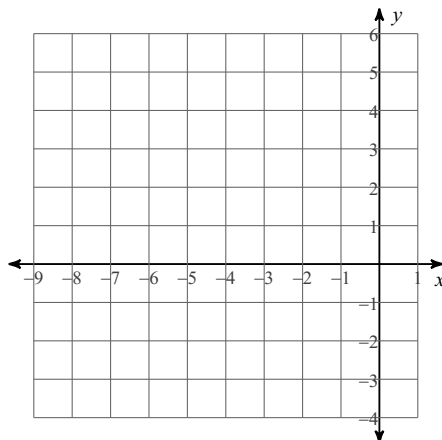
Quadratic Functions

Sketch the graph of each function. If necessary, first convert to vertex form. Then, give the y-intercept.

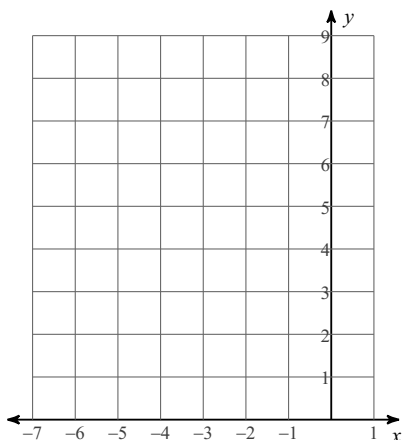
1) $y = -(x + 3)^2 - 4$



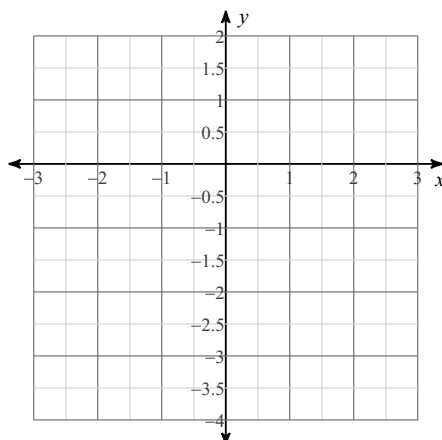
2) $y = 2(x + 2)^2 - 3$



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



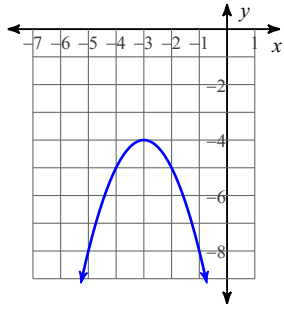
4) $y = x^2 + 2x - 2$



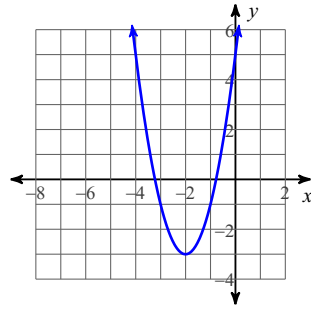
5) Find the roots of $y = 4(x + 2)(x - 5)$

Answers to Quadratic Functions

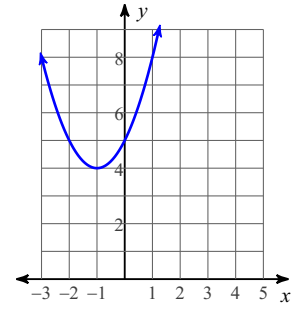
1)



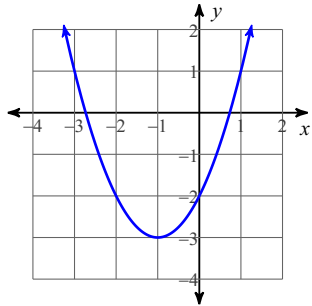
2)



3)



4)



5) $x = \{-2, 5\}$