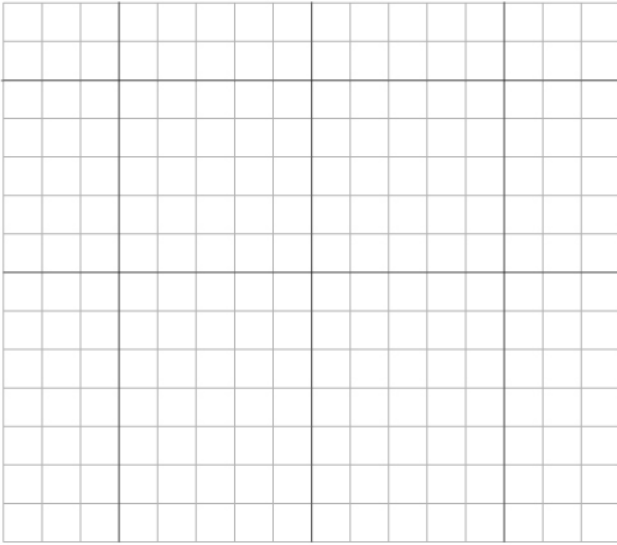


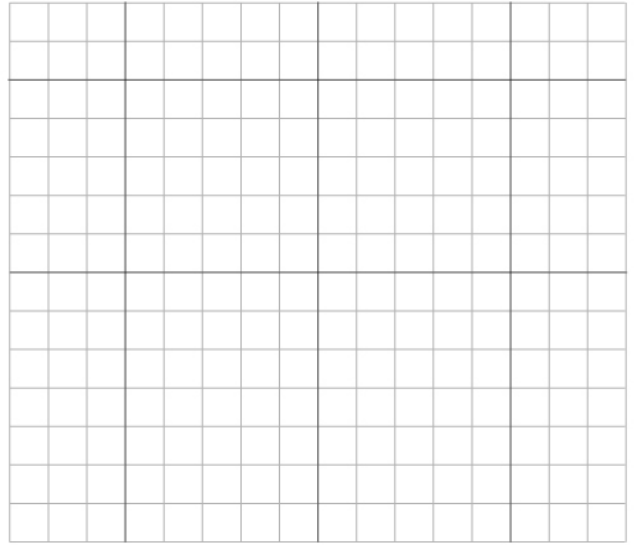
# Quadratic Functions and Transformations

Draw the graph of each function and also translate the graph as directed.

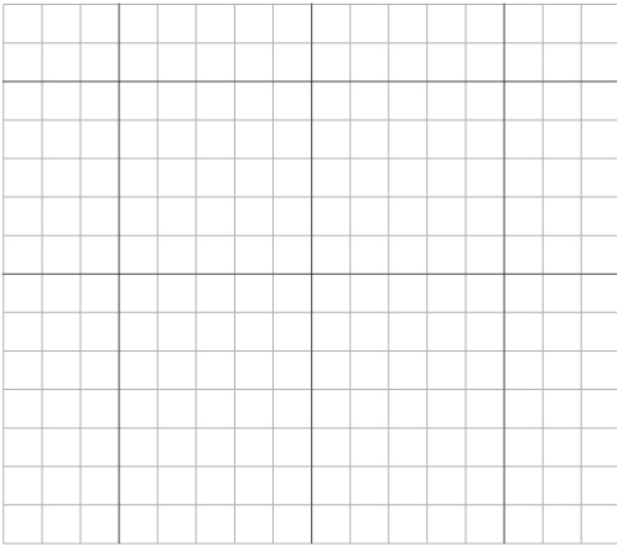
a)  $f(x) = -x^2 - 4x + 5$ , translate 2 units up



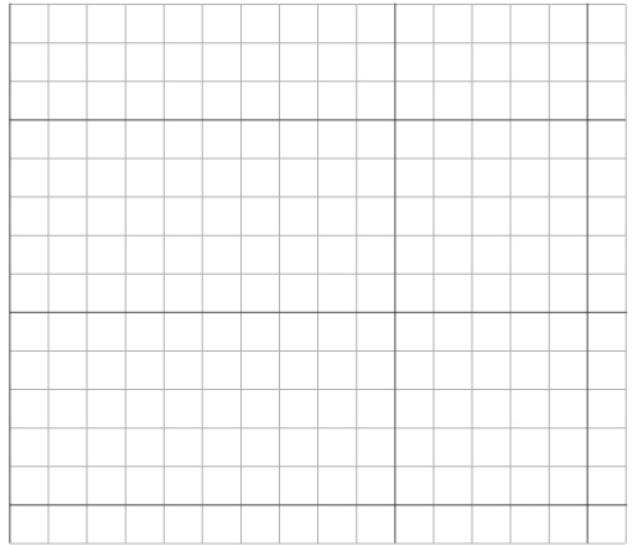
b)  $f(x) = x^2 + 6x + 9$ , translate 3 units right



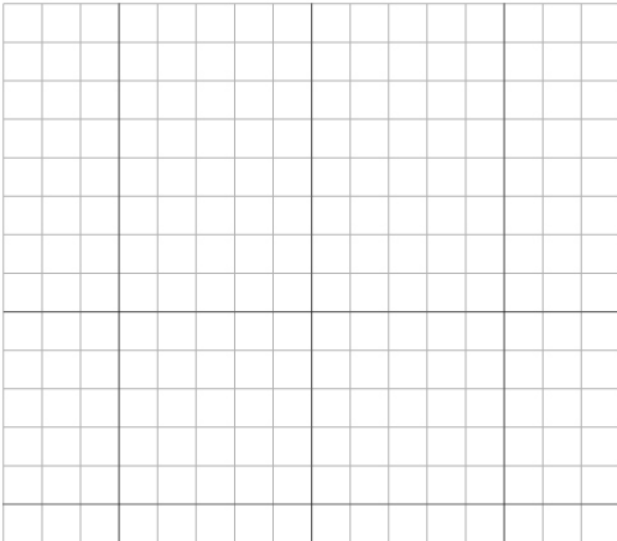
c)  $f(x) = 2x^2 + 3$ , translate 3 units down



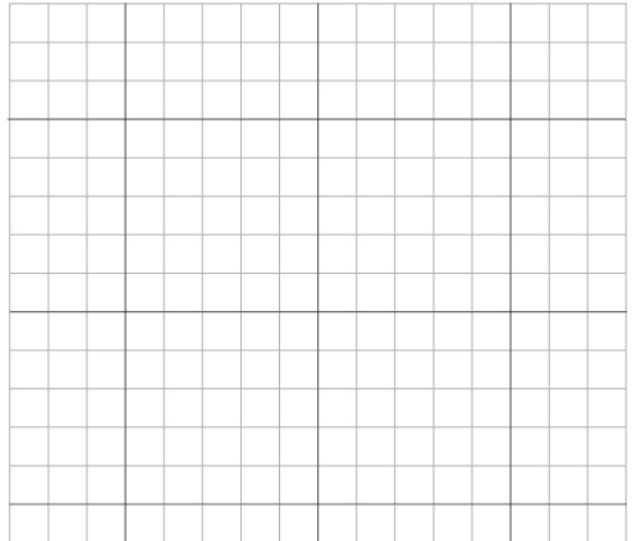
d)  $f(x) = -x^2 + 4x - 5$ , translate 5 units left



e)  $f(x) = 3x^2 - 9$ , translate 9 units up



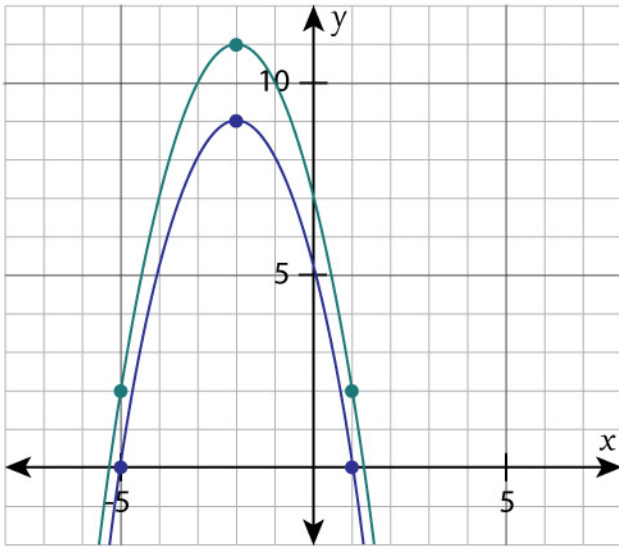
f)  $f(x) = x^2 + 8x + 6$ , translate 2 units right



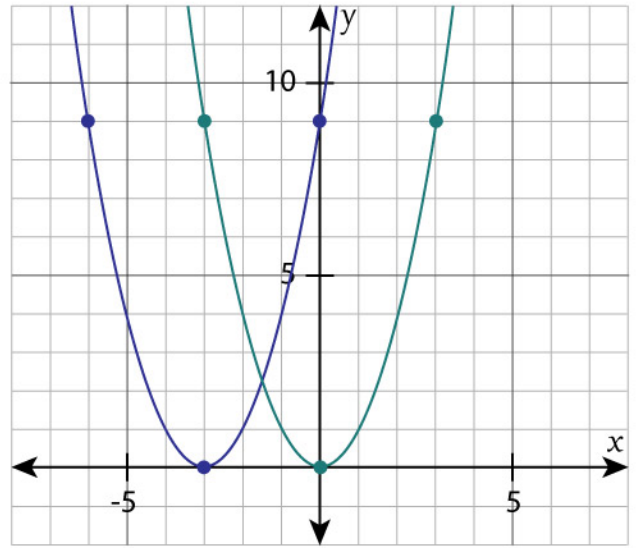
# Quadratic Functions and Transformations

## Answers

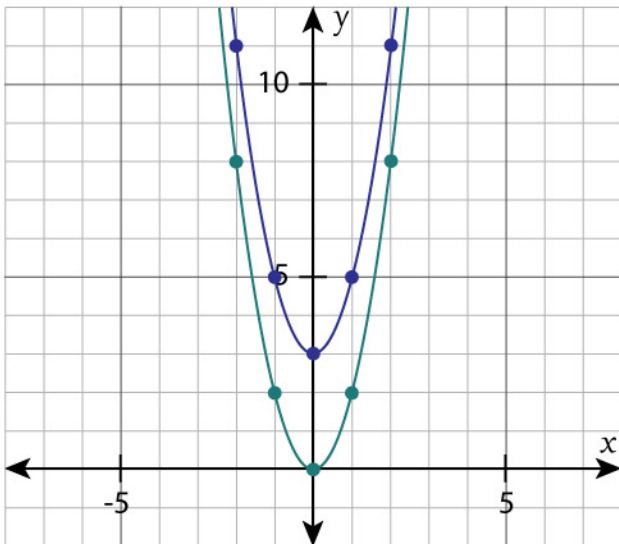
a)  $f(x) = -x^2 - 4x + 5$ , translate 2 units up



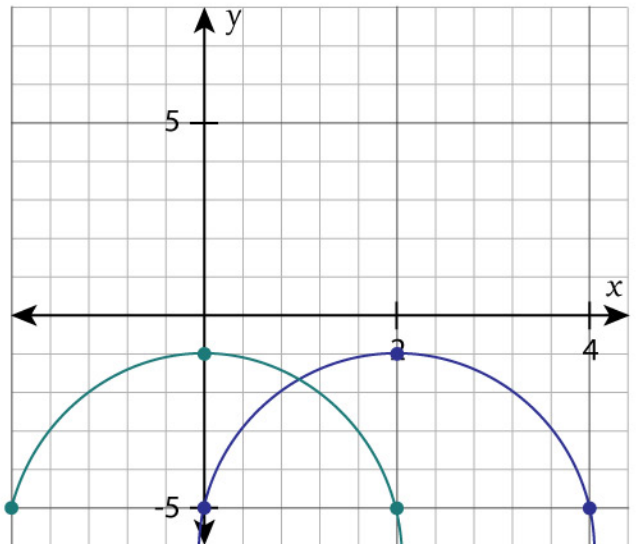
b)  $f(x) = x^2 + 6x + 9$ , translate 3 units right



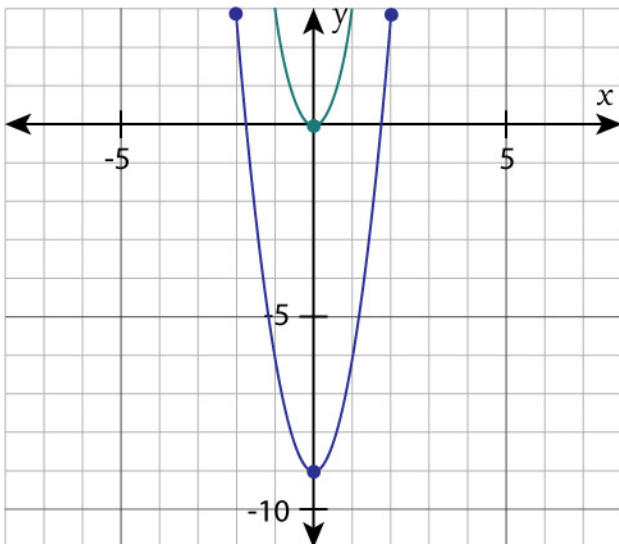
c)  $f(x) = 2x^2 + 3$ , translate 3 units down



d)  $f(x) = -x^2 + 4x - 5$ , translate 5 units left



e)  $f(x) = 3x^2 - 9$ , translate 9 units up



f)  $f(x) = x^2 + 8x + 6$ , translate 2 units right

