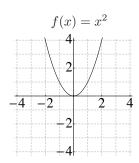
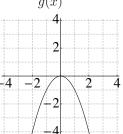
Example 4. In each of the two parts below, you are given a function f and are shown two transformations, gand h, of f. Describe in words how g is obtained from f, and how h is obtained from g, and then find formulas for gand h. Check your answers either using a graphing calculator or by plotting test points.

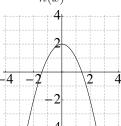
(a)



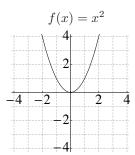
g(x)

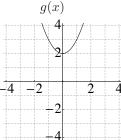


h(x)

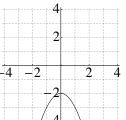


(b)





h(x)



Examples and Exercises _

- 1. Write formulas for each of the following transformations of the function $q(p) = p^2 p + 1$.
 - (a) q(p-1)
- (b) q(p) 1
- (c) -2q(-p)