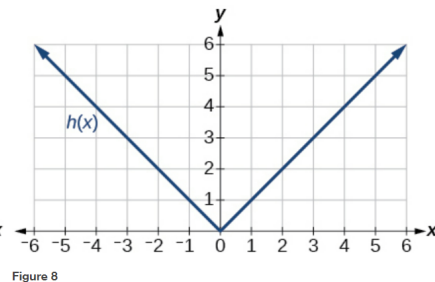
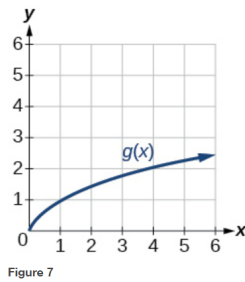
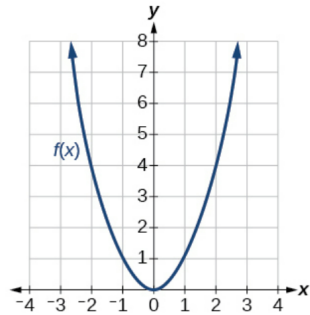


## Exercise 57

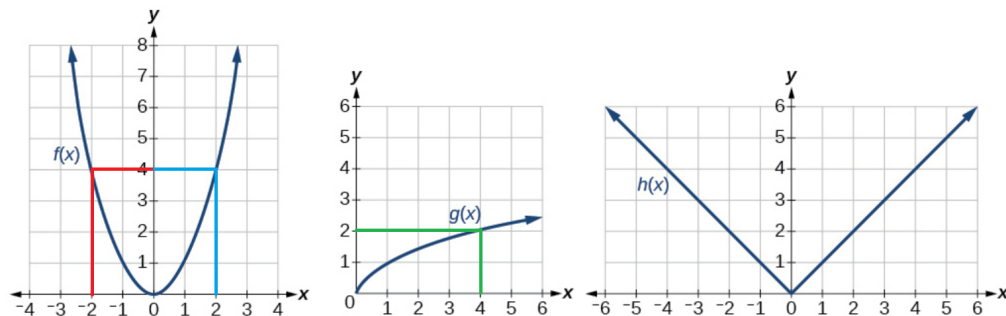
For the following exercises, use graphs of  $f(x)$ , shown in Figure 6,  $g(x)$ , shown in Figure 7, and  $h(x)$ , shown in Figure 8, to evaluate the expressions.



$$f(g(f(-2)))$$

### Solution

Notice from the graphs that  $f(-2) = 4$  and  $g(4) = 2$  and  $f(2) = 4$ .



Therefore,

$$f(g(f(-2))) = f(g(4)) = f(2) = 4.$$