

## Exercise 46

For the following exercises, use the graphs of  $f$ , shown in Figure 4, and  $g$ , shown in Figure 5, to evaluate the expressions.

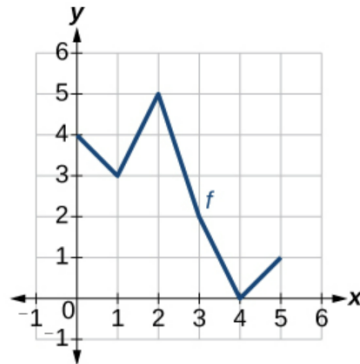


Figure 4

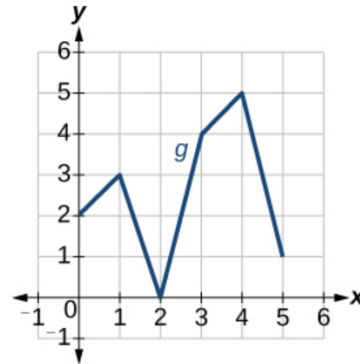
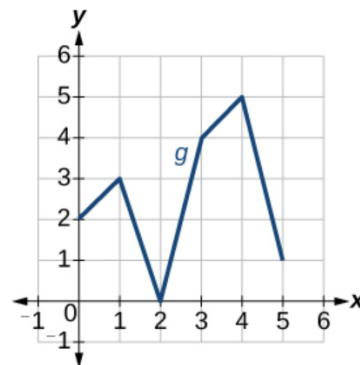
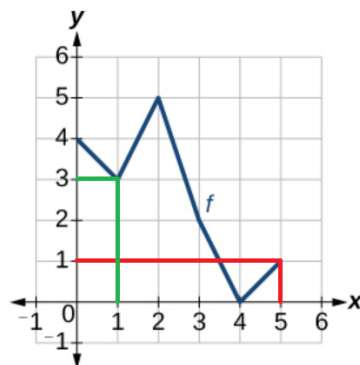


Figure 5

$$f(f(5))$$

### Solution

Notice from the graphs that  $f(5) = 1$  and  $f(1) = 3$ .



Therefore,

$$f(f(5)) = f(1) = 3.$$