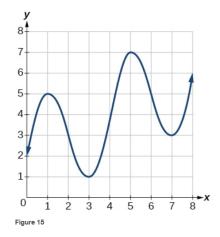
## Exercise 16

For the following exercises, consider the graph of f shown in Figure 15.



Estimate the average rate of change from x = 1 to x = 4.

## Solution

The average rate of change of the function from x=1 to x=4 is

$$\frac{f(4) - f(1)}{4 - 1} \approx \frac{4 - 5}{3}$$
$$\approx \frac{-1}{3}$$
$$\approx -\frac{1}{3}.$$