

Exercise 17

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

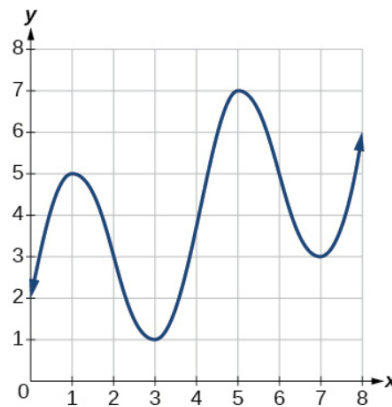


Figure 15

Estimate the average rate of change from $x = 2$ to $x = 5$.

Solution

The average rate of change of the function from $x = 2$ to $x = 5$ is

$$\begin{aligned}\frac{f(5) - f(2)}{5 - 2} &\approx \frac{7 - 3}{3} \\ &\approx \frac{4}{3}.\end{aligned}$$