Exercise 24

For the following exercises, find the average rate of change of the functions from x = 1 to x = 2.

f(x) = 4x - 3

Solution

Calculate the average rate of change of f(x) from x = 1 to x = 2.

$$\frac{f(2) - f(1)}{2 - 1} = \frac{[4(2) - 3] - [4(1) - 3]}{2 - 1}$$
$$= \frac{(8 - 3) - (4 - 3)}{1}$$
$$= 5 - 1$$
$$= 4$$