Exercise 7

For the following exercises, find the values for each function, if they exist, then simplify.

a. $f(0)$ b. $f(1)$ c. $f(3)$ d. $f(-x)$ e. $f(a)$ f. $f(a+h)$

$$f(x) = 5x - 2$$

Solution

Evaluate each of the functions.

$$f(0) = 5(0) - 2 = 0 - 2 = -2$$

$$f(1) = 5(1) - 2 = 5 - 2 = 3$$

$$f(3) = 5(3) - 2 = 15 - 2 = 13$$

$$f(-x) = 5(-x) - 2 = -5x - 2$$

$$f(a) = 5(a) - 2 = 5a - 2$$

$$f(a+h) = 5(a+h) - 2 = 5a + 5h - 2$$