Exercise 70

For the following exercises, evaluate the function f at the values $f(-2)$, $f(-1)$, $f(0)$, $f(1)$, and $f(2)$.

$$f(x) = 8x^2 - 7x + 3$$

Solution

Evaluate the given function at the different values of x.

$$f(-2) = 8(-2)^2 - 7(-2) + 3 = 8(4) + 14 + 3 = 32 + 14 + 3 = 49$$

$$f(-1) = 8(-1)^2 - 7(-1) + 3 = 8(1) + 7 + 3 = 8 + 7 + 3 = 18$$

$$f(0) = 8(0)^2 - 7(0) + 3 = 8(0) - 0 + 3 = 0 - 0 + 3 = 3$$

$$f(1) = 8(1)^2 - 7(1) + 3 = 8(1) - 7 + 3 = 8 - 7 + 3 = 4$$

$$f(2) = 8(2)^2 - 7(2) + 3 = 8(4) - 14 + 3 = 32 - 14 + 3 = 21$$