

Exercise 73

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

$$f(x) = 3^x$$

Solution

Evaluate the given function at the different values of x .

$$f(-2) = 3^{-2} = \frac{1}{3^2} = \frac{1}{9} \approx 0.1111$$

$$f(-1) = 3^{-1} = \frac{1}{3^1} = \frac{1}{3} \approx 0.3333$$

$$f(0) = 3^0 = 1$$

$$f(1) = 3^1 = 3$$

$$f(2) = 3^2 = 9$$