

## Exercise 71

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

$$f(x) = 3 + \sqrt{x + 3}$$

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### Solution

Evaluate the given function at the different values of  $x$ .

$$f(-2) = 3 + \sqrt{(-2) + 3} = 3 + \sqrt{1} = 3 + 1 = 4$$

$$f(-1) = 3 + \sqrt{(-1) + 3} = 3 + \sqrt{2} \approx 4.414$$

$$f(0) = 3 + \sqrt{(0) + 3} = 3 + \sqrt{3} \approx 4.732$$

$$f(1) = 3 + \sqrt{(1) + 3} = 3 + \sqrt{4} = 3 + 2 = 5$$

$$f(2) = 3 + \sqrt{(2) + 3} = 3 + \sqrt{5} \approx 5.236$$