

Exercise 8

For the following exercises, find the domain of each function using interval notation.

$$f(x) = 3\sqrt{x-2}$$

Solution

You can't take the square root of a negative number, so it's necessary that

$$x - 2 \geq 0.$$

Add 2 to both sides.

$$x \geq 2$$

Therefore, the domain is $[2, \infty)$. This is reflected in the graph of $f(x)$ versus x .

