

Exercise 10

Sketch the graph of an example of a function f that satisfies all of the given conditions.

$$\lim_{x \rightarrow 3} f(x) = -\infty, \quad \lim_{x \rightarrow \infty} f(x) = 2, \quad f(0) = 0, \quad f \text{ is even}$$

Solution

Below is the graph of a function that satisfies these conditions.

