Exercise 8

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

$$\lim_{x\to\infty}f(x)=3,\quad \lim_{x\to 2^-}f(x)=\infty,\quad \lim_{x\to 2^+}f(x)=-\infty,\quad f \text{ is odd}$$

Solution

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

