

## Exercise 5

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

$$\lim_{x \rightarrow 0} f(x) = -\infty, \quad \lim_{x \rightarrow -\infty} f(x) = 5, \quad \lim_{x \rightarrow \infty} f(x) = -5$$

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### Solution

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

