## Exercise 3

In general, explain the end behavior of a power function with odd degree if the leading coefficient is positive.

## Solution

For a power function with odd degree and positive leading coefficient,  $f(x) \to -\infty$  as  $x \to -\infty$ and  $f(x) \to \infty$  as  $x \to \infty$ . See, for example, the graph of  $f(x) = x^3$ .

