## 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, $f(x) \rightarrow-\infty$ as $x \rightarrow-\infty$ and $f(x) \rightarrow \infty$ as $x \rightarrow \infty$. See, for example, the graph of $f(x)=x^{3}$.


