

## Exercise 20

For the following exercises, determine the end behavior of the functions.

$$f(x) = -x^9$$

### Solution

Because  $x$  is raised to an odd power and the coefficient is negative,  $f(x) \rightarrow \infty$  as  $x \rightarrow -\infty$  and  $f(x) \rightarrow -\infty$  as  $x \rightarrow \infty$ .

