## Exercise 65

The $y$-intercept is $(0,1)$. There is no $x$-intercept. Degree is 4 . End behavior: as $x \rightarrow-\infty$, $f(x) \rightarrow \infty$, as $x \rightarrow \infty, f(x) \rightarrow \infty$.

## Solution

Try the simplest function.

$$
f(x)=x^{4}+1
$$

The function is graphed below, and the intercepts are labelled.


