Exercise 65

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

Solution

Try the simplest function.

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

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

