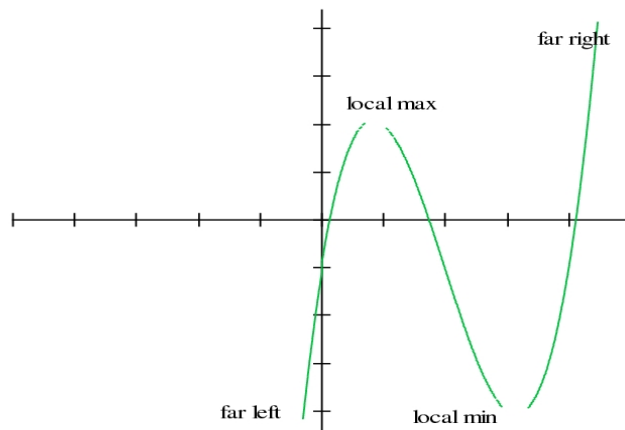


Polynomial Functions

Note: It is assumed that you are familiar with long division or synthetic division of polynomials.

Examples of polynomial functions are $f(x) = 4x^3 + 3x^2 + 7x - 3$ and $g(x) = 5x^4 - 2x + 1$.

The topic of this study guide is to find the x-intercepts also known as rational zeros of polynomial functions, and to be able to make a graph of these functions - finding the x-intercepts is essential to making the graph. Let us first look at some general aspects of polynomial functions. Typically they look as follows



or maybe like