

Numerical Root Finding Techniques

Numerical Root Finding

A common problem we have to solve is finding the solution of equations of the form:

$$f(x) = 0$$

In the case where a simple analytic solution does not exist, numerical solutions can be employed. We shall take a look at three of these techniques: the bisection method, the secant method and the Newton Raphson method.

All of these methods require that the function f is continuous around the root.