1. Explain the algorithm of
   (a) bisection method
   (b) Secant method.

2. Write down the equation for iterating solutions in a Secant method.

3. Derive the convergence condition for the Secant method. How does it compare with the bisection method.

4. Consider the 3rd degree polynomial equation \(2x^3 - 8x^2 + 2x + 12 = 0\). What is the largest possible root? Find the approximate root using the bisection method.

5. Find the largest root of \(x^6 - x - 1 = 0\) using bisection method.

6. Solve \(x^2 - 3x + 2 = 0\) using Secant method.