

Computational and Numerical Methods

Sub Code: CS374, Lab3
BTech(CS), 5th Semester

1. Using Secant method, write a *MATLAB* program to find the roots of the following equations with an error tolerance $\epsilon = 10^{-6}$.

(a) $x^3 - x^2 - x - 1 = 0$.

(b) $\cos(x) = \frac{1}{2} + \sin(x)$.

Determine the initial approximations x_0 and x_1 to find the root.