CLL:113-Tut-6(11.9.19)

Q1. Generate eight equally spaced points from the function
$f(t) = \sin^2 t$ from $t = 0$ to 2π. Fit this data with

(a) A Lagrangian Polynomial
(b) A Newton's Divided Difference Formula
(c) A seventh-order interpolating polynomial

Comment about your findings

Q2 Develop a C program to implement Bairstow's method to determine the positive real roots of

(a) $f(x) = x^3 + x^2 - 4x - 4$
(b) $f(x) = x^3 - 0.5x^2 + 4x - 2$