

Numerical Methods: Class Test 1

Dr. Sachchidanand Prasad

Problem 1

Use bisection method to approximate the root of the equation $e^x = 3x$. Do 5 iterations.

Problem 2

Using the regula falsi method, compute a real root of the equation $3x \sin x = e^x$. Do 5 iterations.

Problem 3

Use Newton-Raphson method to evaluate $\sqrt{13}$ correct upto 4 decimal places.