Assignment 1

Numerical Analysis by Maqsood Alam

Due date: 11:59PM 24/10/2021

For all question below use the tolerance = if not specified.

Q1) Approximate the value of using following methods.

1. Bisection method
2. Newton’s method
3. Secant method
4. False position method
5. Compare the speed the of convergence all methods given above.

Q2) At what time t will the processes governed by and reach the same temperature.

Q4) Find the smallest positive solution of .

1. Using Newton’s method
2. Using fixed point iteration

Computer Problems:

Q5) Implement the following methods in phyton

1. False position method.
2. Fixed point iteration.

Q) Solve questions 1-4 using python for tolerance = and tolerance =

You can find the codes which i have covered in tutorial in Google drive folder(link given in the whatsapp group)