

MA301 (Differential Equations)

Assignment - 2

1. Write a C/Python program to solve the given differential equation using Picard's Iteration.

$$\frac{dx}{dt} = tx, \text{ with } x(0) = 1$$

2. Write a C/Python program to solve the given differential equation using Euler's Numerical Method. Also find the errors.

$$y' = y, y(0) = 1, h = 0.1$$