

MATLAB Project 1

Consider the initial value problem

$$y' = (3.95 - xy)/(1.10 + y^2), \quad y(0) = -1.98$$

Use Euler's Method to obtain approximate values of the solution at $x = 0.25, 0.75, 1.50,$ and 2.50 :

(a) with $h=0.01$

(b) with $h=0.05$

(c) with $h=0.25$

(c) with $h=0.10$