

MATLAB Project 1

Consider the initial value problem

$$y' = 3 - 5\sqrt{y}, \quad y(0) = 0.5$$

Use Euler's method to find the approximate values of the solution of the given initial value problem at points $t = 0.25, 0.75, 1.25, 1.75, 2.00, 25.00$

- a) with $h = 0.25$
- b) with $h = 0.05$
- c) with $h = 0.01$