

Project 6 - Initial Value Problems - Part B

Due Monday 3-4

A 3F capacitor, initially charge to 5V is left to discharge through a 8 Ohm resistor. Determine the charge on the capacitor after 0.5 seconds. Do this three times. Once using Euler's method and a time step of 0.01 seconds. Second, using the RG2 method discussed in class and a time step of 0.02 seconds. And finally, work the problem in closed form.

Submit your cpp file to the P6 dropbox. Also submit either a pdf generated from LaTeX or a Word document showing YOUR closed form solution.