**EE498: HW 6** 

Due on 07 06, 2023

Klaus Werner Schmidt

**Muhammed İzzet Sezer** 

**Project Link:** https://github.com/sezer-muhammed/EE498Project

## **Question 1**

## **Simulation and Analysis**

(a) Write down the process regulation for the given Butcher Tableau
(b) Perform the local error
(c) Determine the region of stability for the suggested Runge-Kutta method
(d) Analyze why the method becomes instable for $h > 1.25$ for the linear system