

Lecture 27 Homework

Problem 27.1

- a) Do problem 6.70 in Rao as written.
- b) Compare your answer to Simulink using $k = 1000$, $m = 10$, and $\dot{x}_3(0) = 3$. Include plots of your results and well as a plot of the Simulink solution minus the theoretical solution for all three coordinates. Use $k = 1000$, $m = 10$, and $\dot{x}_3(0) = 3$. You should have plots that looks something like the following:

