## ECE311

## Homework 2

## Problems

Determine the stability of the systems with the following characteristic equations:
a. $s^{5}+3 s^{4}+7 s^{3}+20 s^{2}+6 s+15=0$
b. $2 s^{4}+s^{3}+3 s^{2}+5 s+10=0$
c. $s^{5}+2 s^{4}+2 s^{3}+4 s^{2}+11 s+10=0$
d. $s^{5}+2 s^{4}+24 s^{3}+48 s^{2}-25 s-50=0$

