EE475 Quiz #7

Name: Score

Grader:

1. After the Routh table is done, the Routh-Hurwitz criteria state:
   1. The polynomial is A.S. iff
   2. The number of RHP roots is equal to
2. Base on the Routh criterion, a second order polynomial *as2+bs+c* is A.S. if and only if
3. Base on the Routh criterion, a third order polynomial *as3+bs2+cs+d* is asymptotically stable if and only a)

and b)

1. Use the Routh criterion, determine if each of the following polynomial are asymptotically stable: (write Yes or No)

*s2+s+1*

*s3+2s2+3s+4*

*s3+2s2+2s+8*

*s5+2s2+3s+4*

*s3-2s2+3s+4*