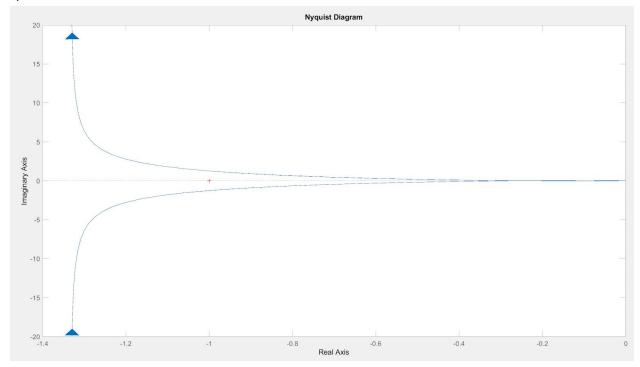
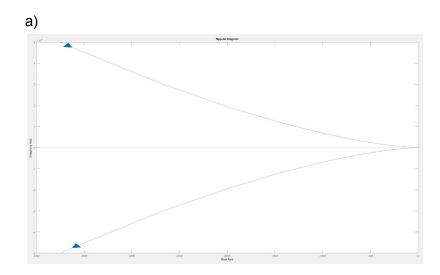
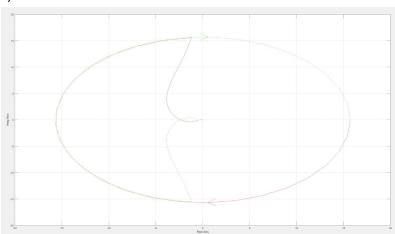
a)



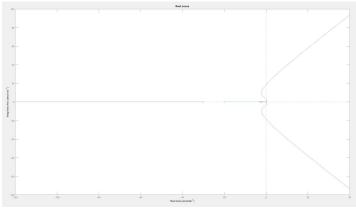
3.

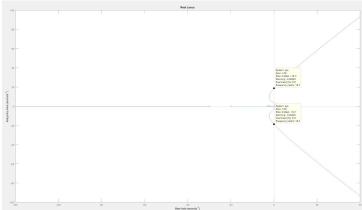












```
>> [k,p] = rlocfind(sys)
Select a point in the graphics window

selected_point =

0.3791 -18.5759i

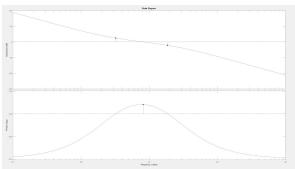
k =

3.5622

p =

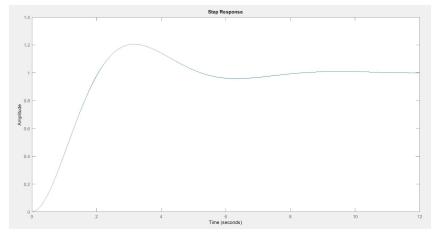
-44.5268 + 0.0000i
0.0449 +18.7065i
0.0449 -18.7065i
0.0449 -18.7065i
-3.7188 + 0.0000i
-1.8442 + 0.0000i
-1.8442 + 0.0000i
-1.8442 + 0.0000i
-1.8461 + 0.0000i
-1.8461 + 0.0000i
```

e)



4.

c)



>> stepinfo(H)

ans =

struct with fields:

RiseTime: 1.3933 SettlingTime: 7.5106 SettlingMin: 0.9071 SettlingMax: 1.2052 Overshoot: 20.5180 Undershoot: 0 Peak: 1.2052 PeakTime: 3.1315

>> [w,z] = damp(H)

w =

0

1.0000

1.1111

1.1111

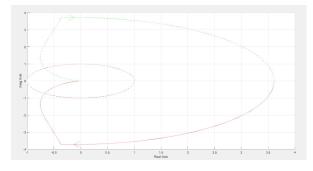
z =

-1.0000 1.0000

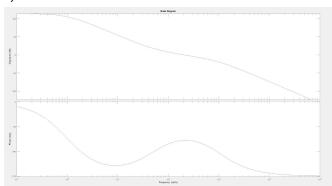
0.4500

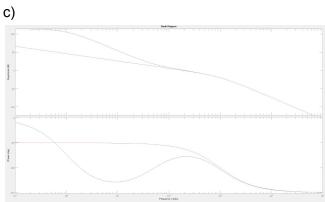
0.4500

d)



a)





d)

