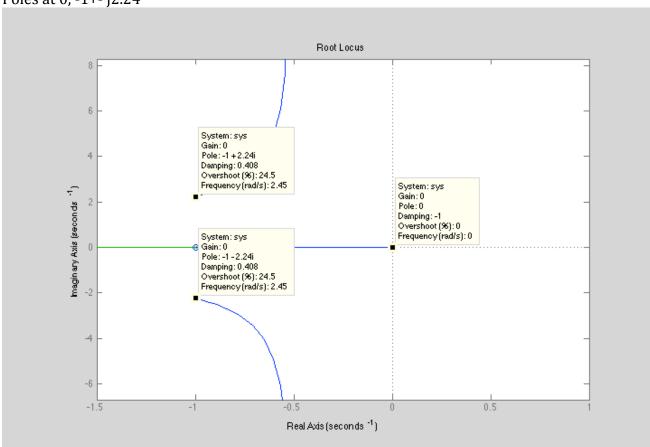


```
6-11)
%%
%#11
clc
clear
s=tf('s');

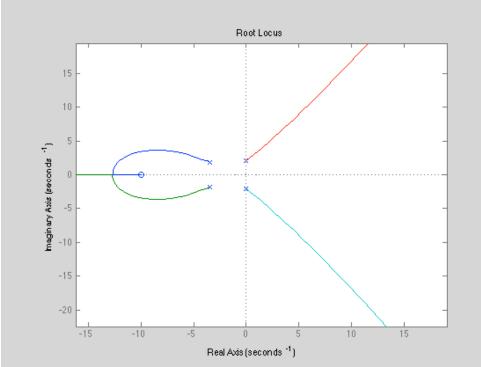
sys=(2*(s+1))/(s*(s^2+2*s+6));
H=1/(s+1);
rlocus(sys,H)
```

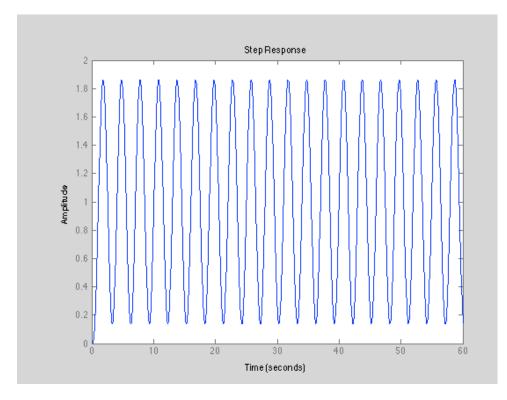
Poles at 0, -1+- j2.24



```
Problem 1)
%%
%#b
clc
clear
k=6.8761763779;
s=tf('s');
sys=(k*(s+10))/(s^4+7*s^3+20*s^2+(24+k)*s+10*k)
rlocus(sys)
step
pole(sys)
ans =
```

-3.5000 + 1.8273i -3.5000 - 1.8273i 0.0000 + 2.1002i 0.0000 - 2.1002i





```
Problem 2)
clc
clear
s=tf('s');
sys=((s*573))/(s^2+33.14*s+573)
rlocus(sys)
%step(sys)
pole(sys)
```

