```
%%effect of loop gain of a negative
feedback system on stability
z = []
p=[-0.5+i -0.5-i -1];
k1=1;
k2=2;
k3=3;
G1=zpk(z,p,k1)
G2=zpk(z,p,k2)
G3=zpk(z,p,k3)
t=[0:0.01:20];
[y1,t]=step(G1,t)
[y2,t] = step(G2,t)
[y3,t] = step(G3,t)
figure (1)
plot(t, y1, t, y2, t, y3)
legend('k=1', 'k=2', 'k=3')
grid
```

