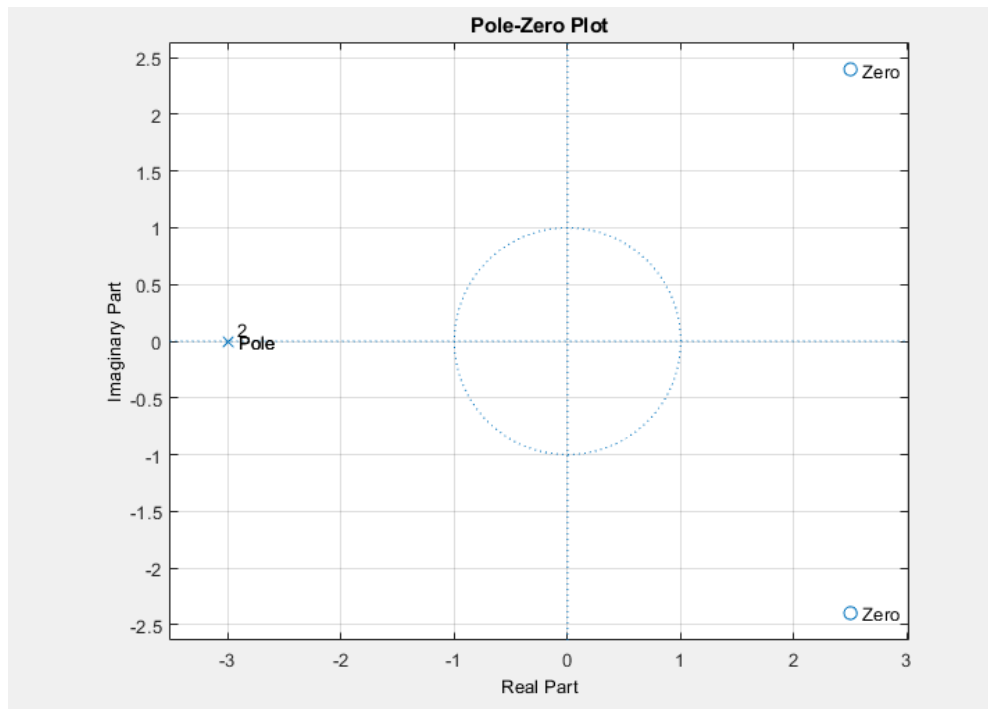


Muhammet Kayra Bulut 20011901

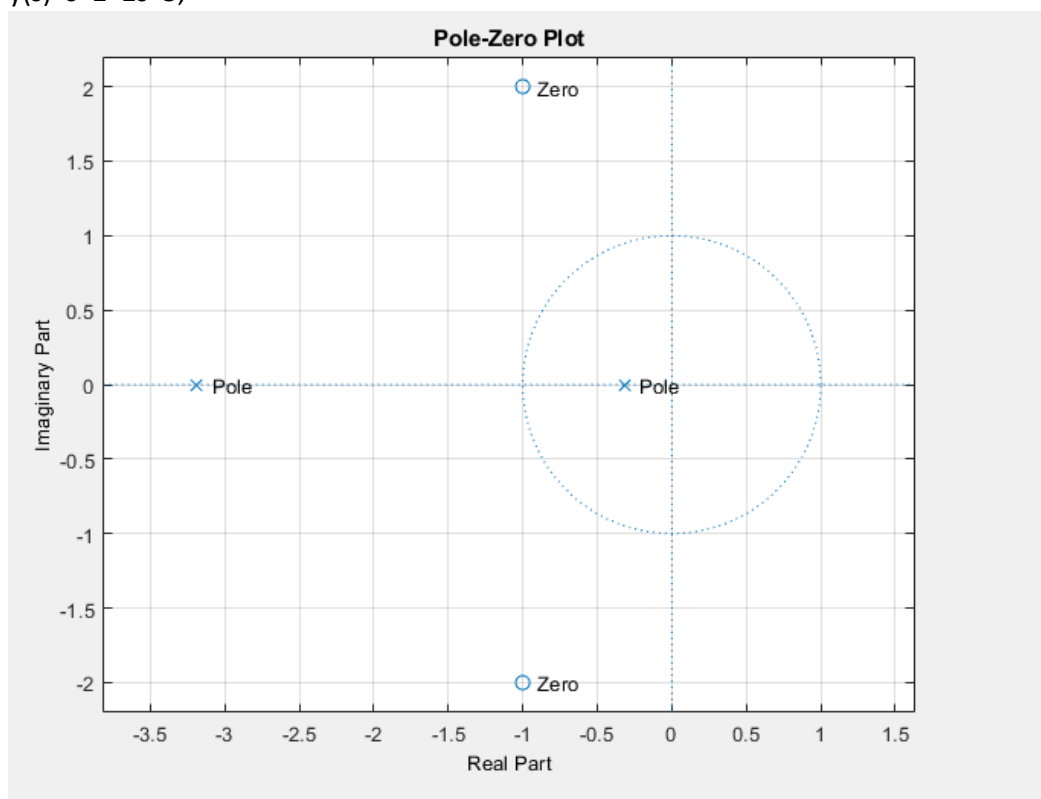
$$x(s)=s^2+6s+9;$$

$$y(s)=s^2-5s+12$$



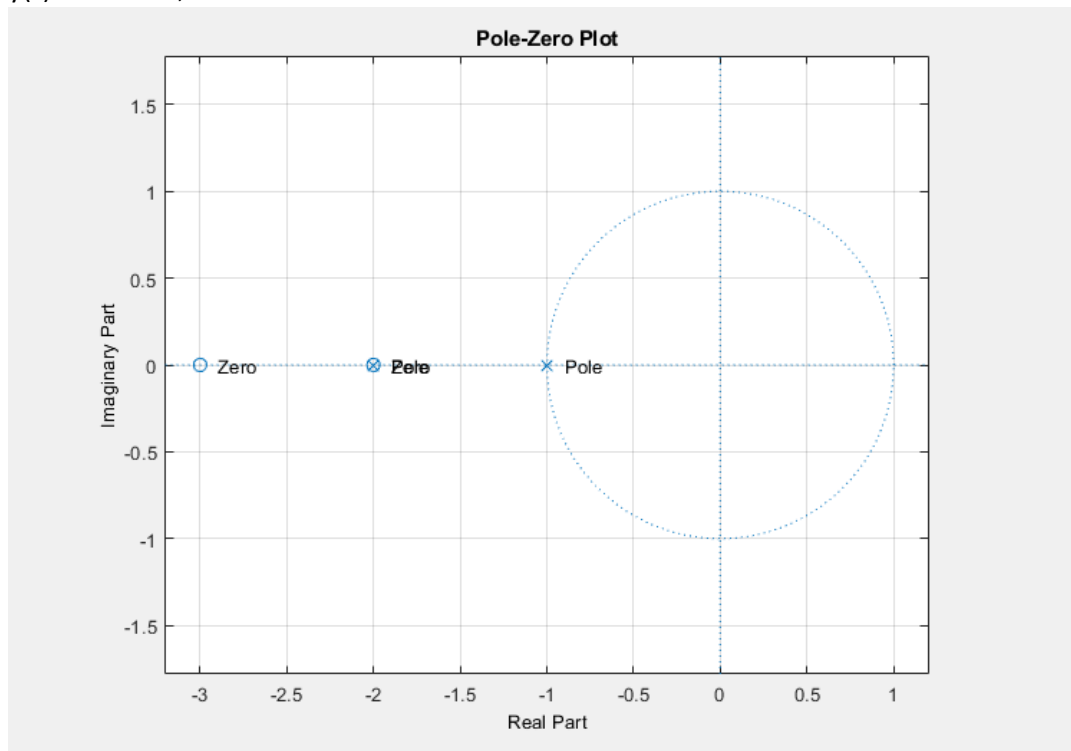
$$x(s)=2s^2+7s+2;$$

$$y(s)=s^2+2s+5;$$



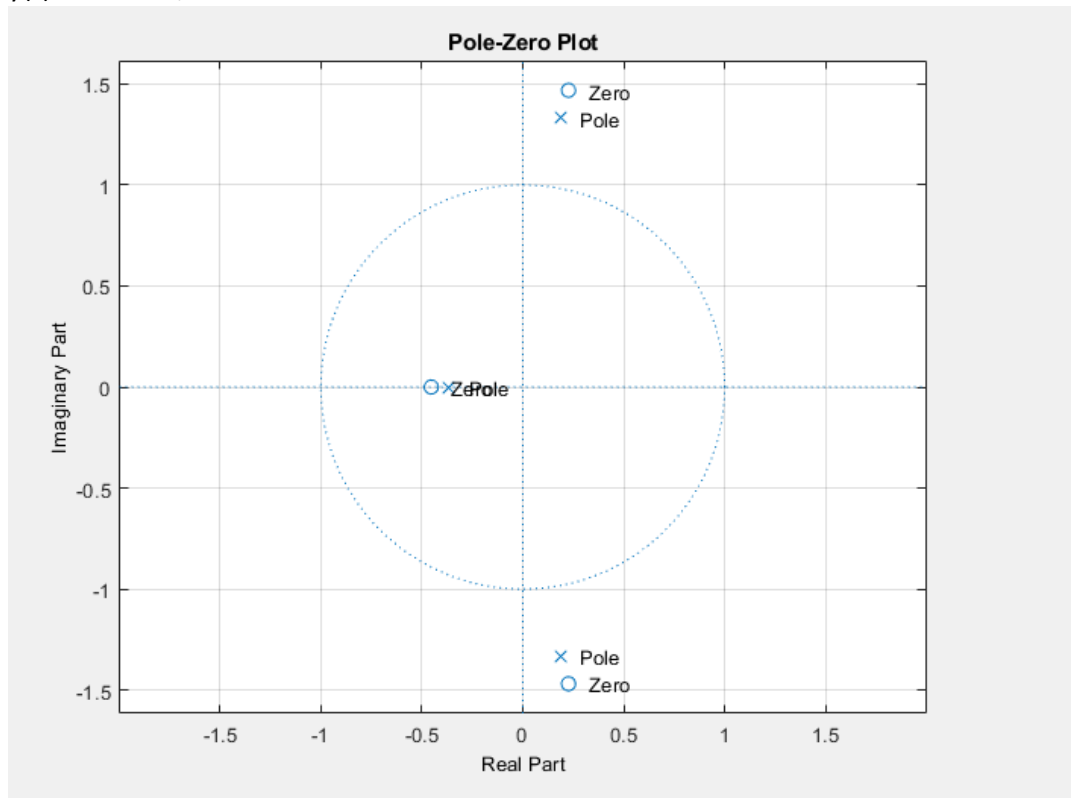
$$x(z)=z^2+3z+2;$$

$$y(z)=z^2+5z+6;$$



$$x(z)=3z^3+5z+2;$$

$$y(z)=z^3+2z+1;$$



Kodum

```
clc
clear all
t=input('x[t] işaretinin en büyük üssünü giriniz');
y=input('y[t] işaretinin en büyük üssünü giriniz');
j=t;
for i=1:1:t+1;

    fprintf('Lutfen x[t] işaretinin üssü %d olanın katsayisini giriniz',j);
    j=j-1;
a(i)=input('');
end
j=y;
for i=1:1:y+1;
    fprintf('Lutfen y[t] işaretinin üssü %d olanın katsayisini giriniz',j);
    j=j-1;
b(i)=input('');
end
[b,a] = eqtflength(b,a);
[z,p,k] = tf2zpk(b,a)
fvtool(b,a,'polezero')
text(real(z)+.1,imag(z),'Zero')
text(real(p)+.1,imag(p),'Pole')

t=input('x[t] işaretinin en büyük üssünü giriniz');
y=input('y[t] işaretinin en büyük üssünü giriniz');
j=t;
for i=1:1:t+1;

    fprintf('Lutfen x[t] işaretinin üssü %d olanın katsayisini giriniz',j);
    j=j-1;
a(i)=input('');
end
j=y;
for i=1:1:y+1;
    fprintf('Lutfen y[t] işaretinin üssü %d olanın katsayisini giriniz',j);
    j=j-1;
b(i)=input('');
end
[b,a] = eqtflength(b,a);
[z,p,k] = tf2zpk(b,a)
fvtool(b,a,'polezero')
text(real(z)+.1,imag(z),'Zero')
text(real(p)+.1,imag(p),'Pole')
```