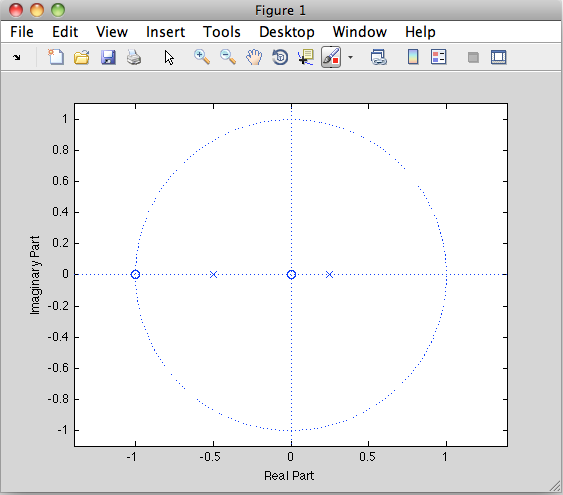
**3.22**

a)

>> b=[1,1];

>> a=[1,1/4,-1/8];

>> zplane(b,a);

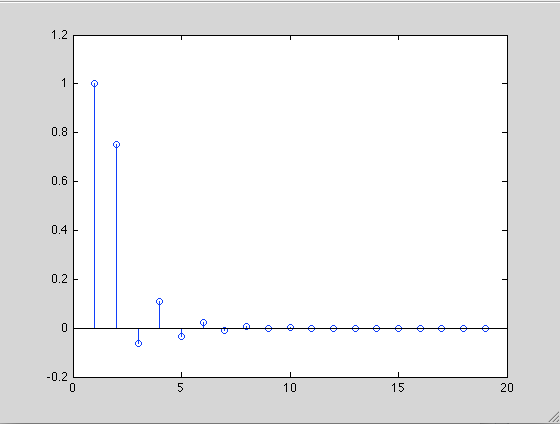


b)

x=[1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0];

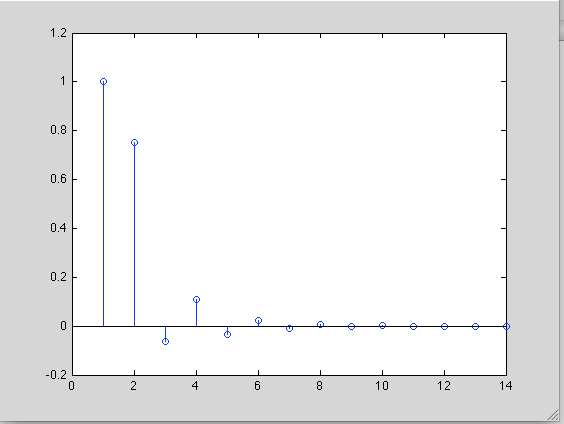
>> y=filter(b,a,x);

>> stem(y);



[h,t] = impz(b,a);

>> stem(h);



c)

>> [r,p,k] = residuez(b,a);

>> r

r =

-0.6667

1.6667

>> p

p =

-0.5000

0.2500

>> k

k =

[ ]

**6.43**

function [ xhat,t] = DAC1( x,N,T )

for t = 0:N\*T

for n = 0:N

xhat = x\*(sin(pi\*(t-n\*T))/T)/(pi\*(t-N\*T)/T);

end

end

end