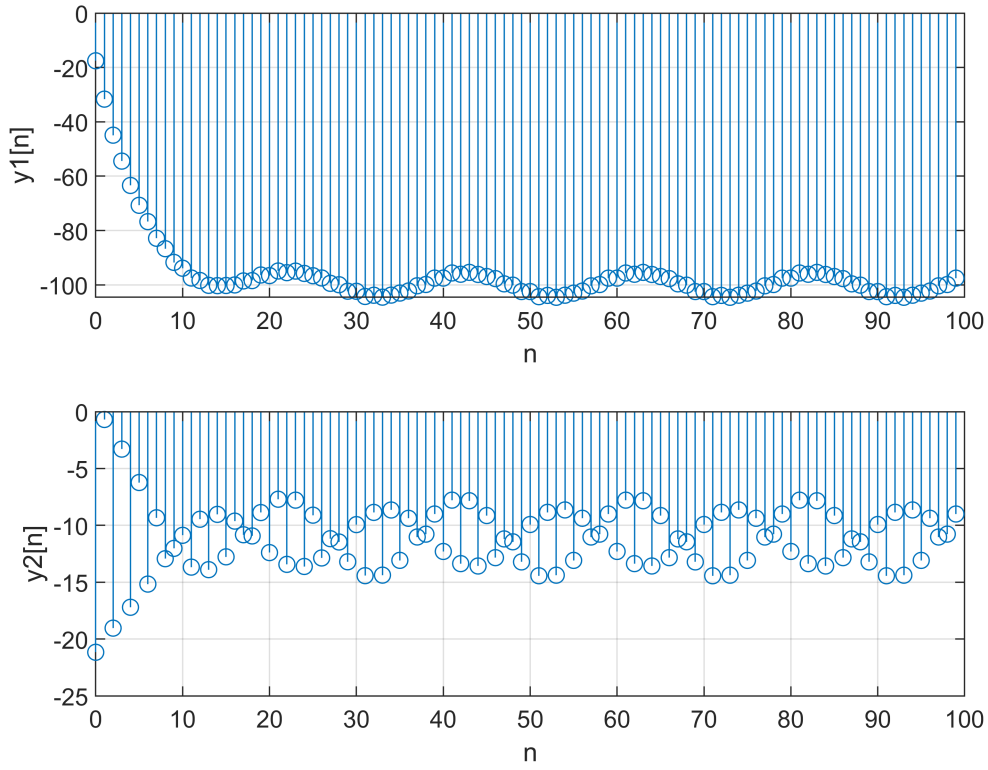
```
a_x=[0 0.75 zeros(1,7) -0.5 0 -0.5 zeros(1,7) 0.75];
x_20=20*ifft(a_x);
n=-20:99;
x=[x_20 x-20 x_20 x-20 x_20 x-20];
y1=filter(b1,a1,x);
y2=filter(b2,a2,x);
subplot(2,1,1),stem(n(n>=0), y1(n>=0)),xlabel('n'),ylabel('y1[n]'),grid;
subplot(2,1,2),stem(n(n>=0), y2(n>=0)),xlabel('n'),ylabel('y2[n]'),grid;
```







```
%y2 contains more high frequency energy and y1 has more low frequency
%energy.  the plots confirm my answers in Part (c)?
```