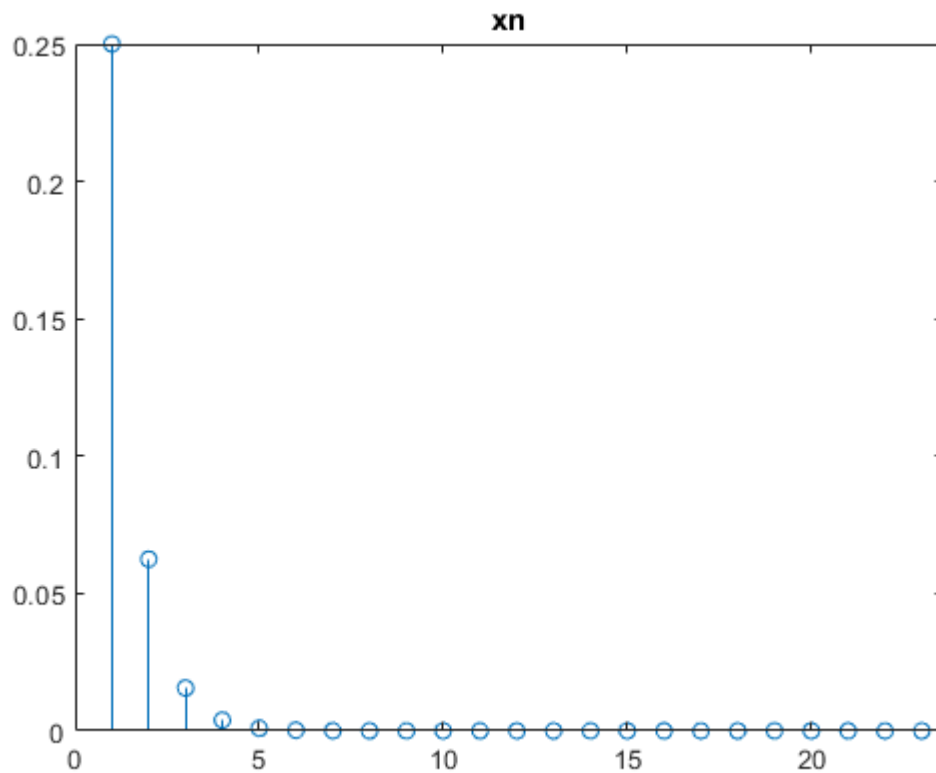
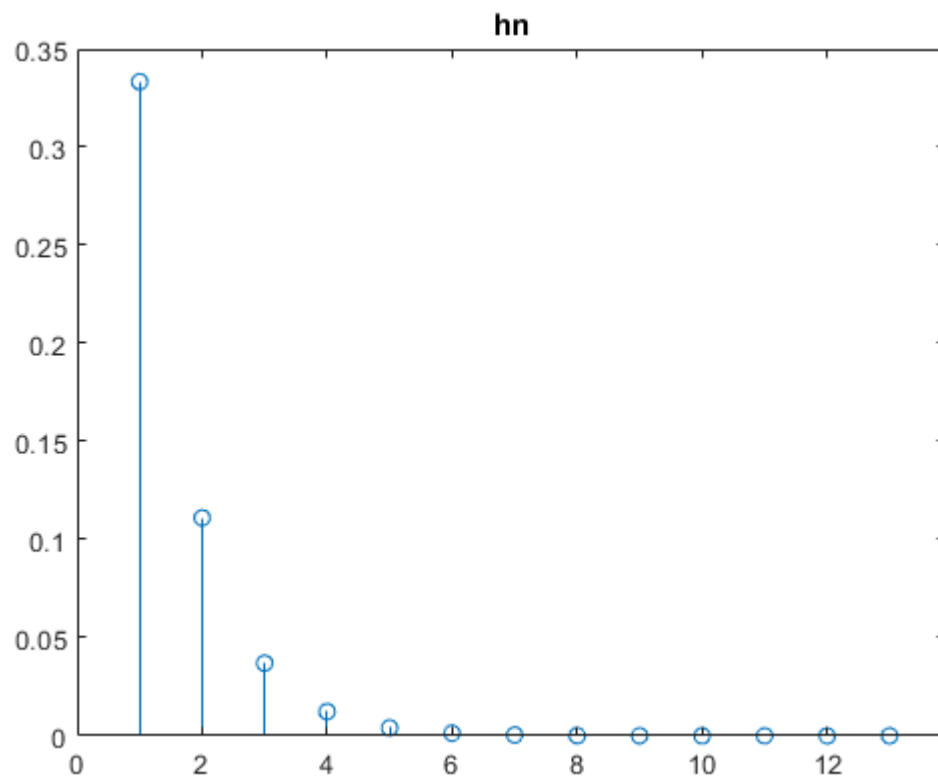


2.27

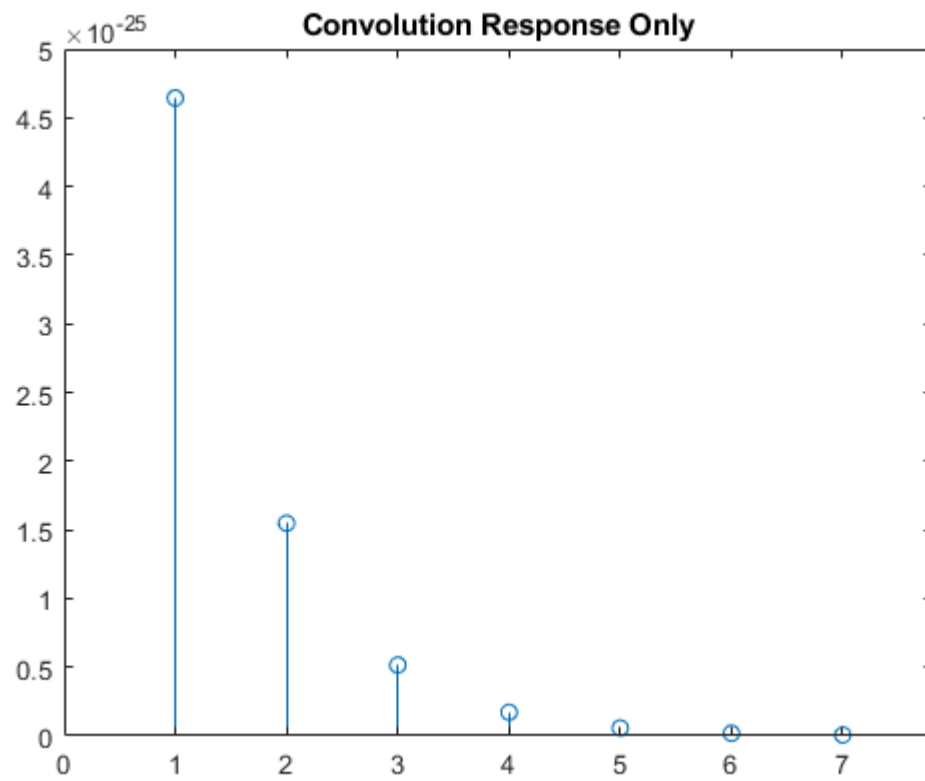
```
n = 1:100;  
un = ones(1,length(n));  
  
an = (1/4) * ones(1,length(n));  
an = an.^n;  
xn = an.*un;  
  
stem(xn)  
title('xn')  
  
xlim([0.0 23.6])  
ylim([0.000 0.250])
```



```
bn = (1/3) * ones(1,length(n));  
bn = bn.^n;  
hn = bn.*un;  
  
stem(hn)  
title('hn')  
  
xlim([0.0 13.9])  
ylim([0.000 0.350])
```



```
yn = conv(xn,hn,'same');  
  
stem(yn)  
title('Convolution Response Only')  
xlim([0.00 7.81])
```



```
stem(yn)
hold on
stem(xn)
stem(hn)
title('Convolution Response')

legend('y[n]', 'x[n]', 'h[n]')
xlim([0.12 9.33])
ylim([0.000 0.350])
hold off
```

