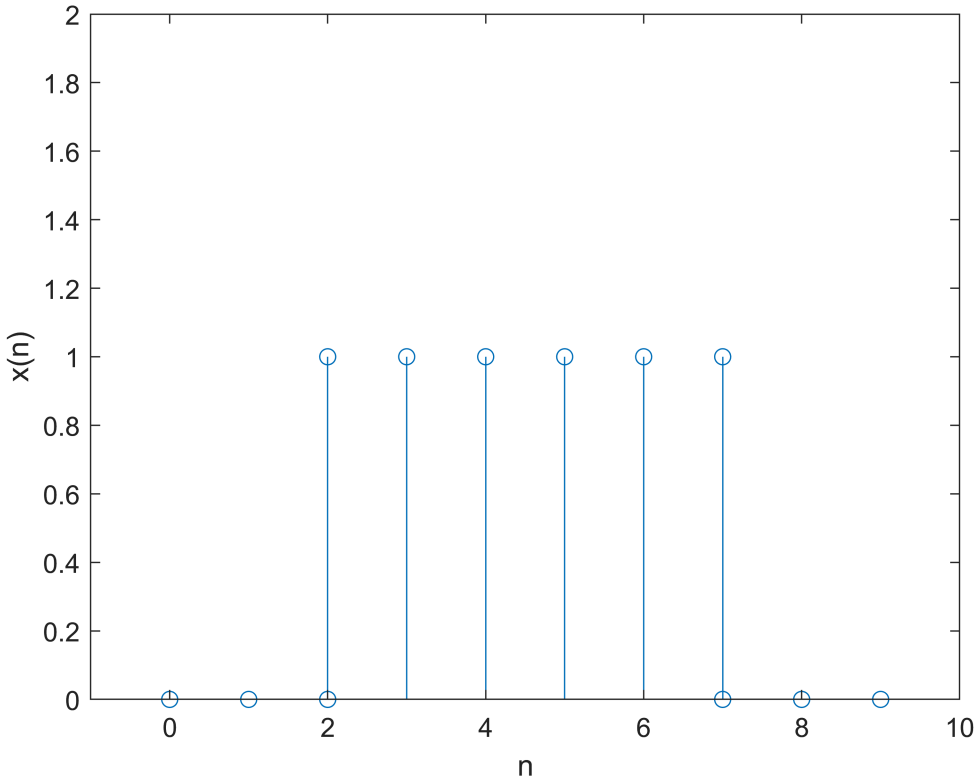
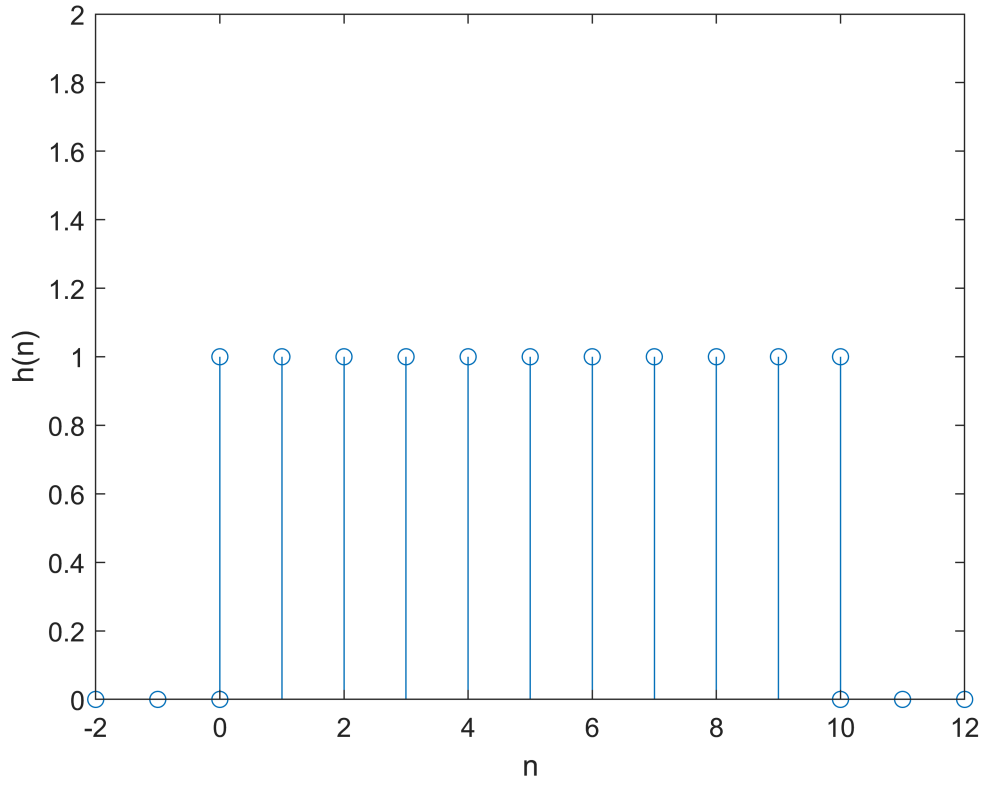
```
t1=[0:1:2];
t2=[2:1:7];
t3=[7:1:9];

a=[t1 t2 t3];
x=[zeros(size(t1)) ones(size(t2)) zeros(size(t3)) ];
stem(a,x);
disp(a)
```

```
    0    1    2    2    3    4    5    6    7    7    8    9
```

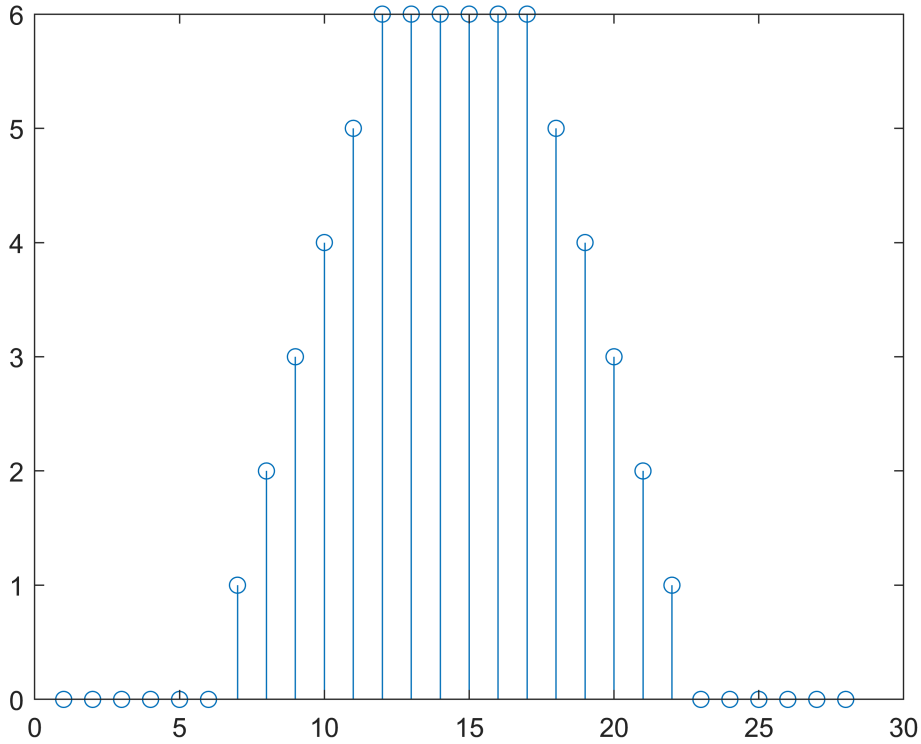
```
xlabel('n');ylabel('x(n)');
axis([-1 10 0 2]);
```



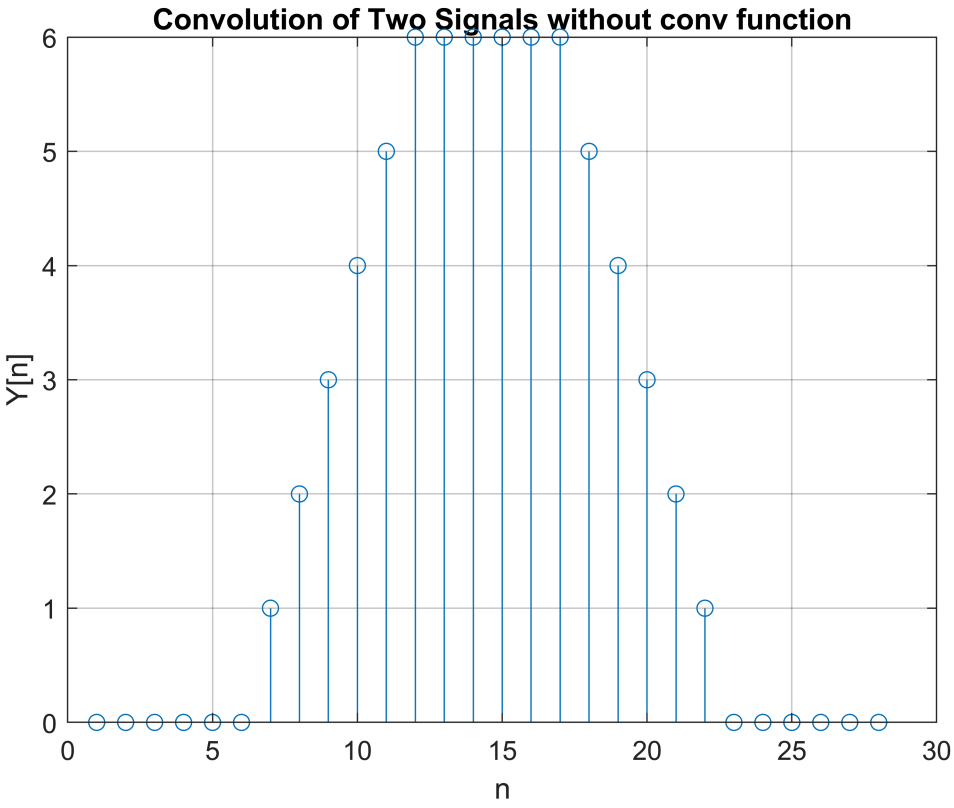

```
ta1=[-2:1:0];
ta2=[0:1:10];
ta3=[10:1:12];
a1=[ta1 ta2 ta3];
h=[zeros(size(ta1)) ones(size(ta2)) zeros(size(ta3)) ];
stem(a1,h);
xlabel('n');ylabel('h(n)');
axis([-2 12 0 2]);
```




```
m=length(x);
n=length(h);
X=[x,zeros(1,n)];
H=[h,zeros(1,m)];
stem(conv(x,h))
```




```
for i=1:n+m-1
    Y(i)=0;
    for j=1:m
        if(i-j+1>0)
            Y(i)=Y(i)+X(j)*H(i-j+1);
        else
        end
    end
end
% plot results
figure;
stem(Y);
ylabel('Y[n]'); xlabel('n'); grid on;
title('Convolution of Two Signals without conv function');
```


Convolution of Two Signals without conv function
Y[n]
n
0
1
2
3
4
5
6
0
5
10
15
20
25
30