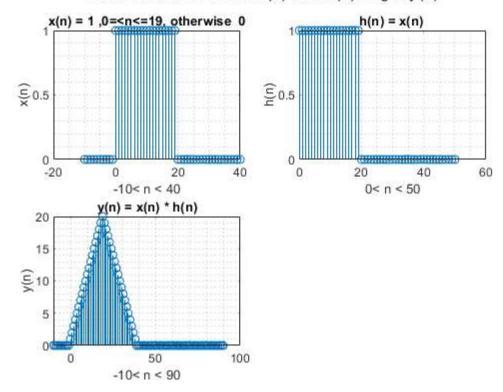
```
%Assignment 1
% Done by Mahmoud Yassin Mahmoud
% ID: 202113650
% Submitted To Dr. Wail A. Mousa
% Bism Allah and I will start with
%(Q1b):
clc;
clear;
%.....
%defining time axis
n1a = -10:-1;
n1b = 0:19;
n1c = 20:40;
n1 = [n1a \ n1b \ n1c];
n2a = 20:50;
n2 = [n1b n2a];
n = -10:90;
%.....
% convoluation calculation
x1 = zeros(size(n1a));
x2 = ones(size(n1b));
x3 = zeros(size(n1c));
h2 = zeros(size(n2a));
x = [x1 x2 x3];
h = [x2 h2];
y = conv(x,h);
%......
%ploting
subplot(221)
stem(n1,x)
  grid minor
  title(['x(n) = 1, 0 = < n < = 19, otherwise 0'])
  xlabel('-10 < n < 40')
  ylabel('x(n)')
subplot(222)
stem(n2,h)
  title('h(n) = x(n) ');
  grid minor
  xlabel('0< n < 50')
  ylabel('h(n)')
subplot(223)
stem(n,y)
  grid minor
  title('y(n) = x(n) * h(n)');
  xlabel('-10< n < 90')
  ylabel('y(n)')
 sgtitle('Convoluation\ between\ x(n)\ and\ h(n)\ to\ get\ y(n)')\ % title for the hole figure
```

## Convoluation between x(n) and h(n) to get y(n)



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