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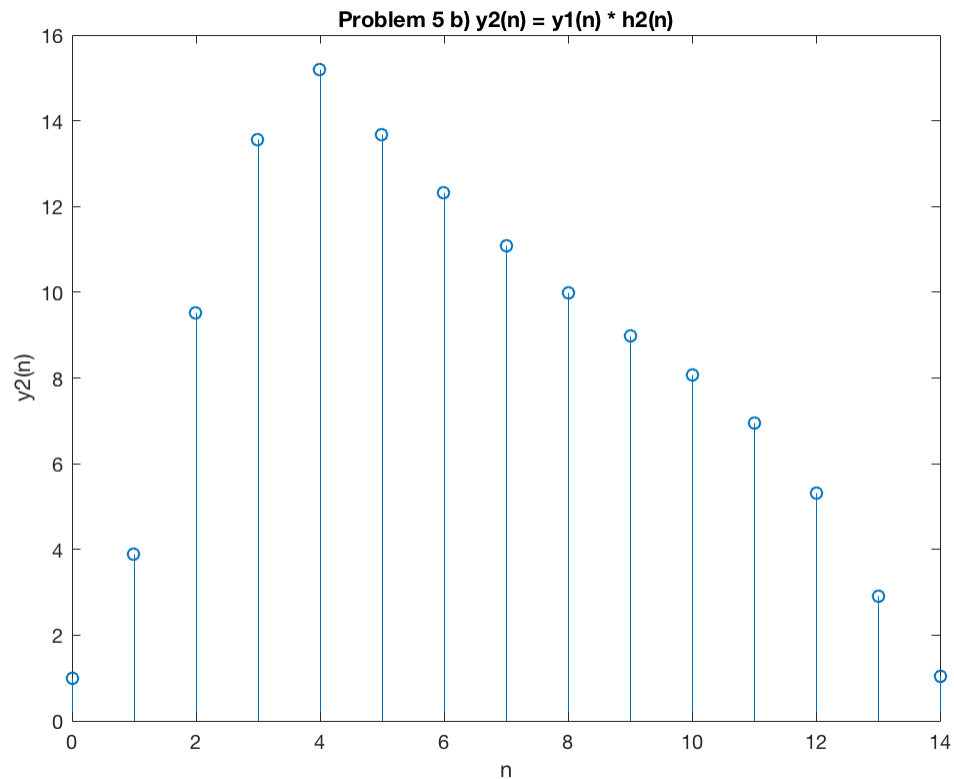
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```
clc; clear; close all;
```

## Problem 5

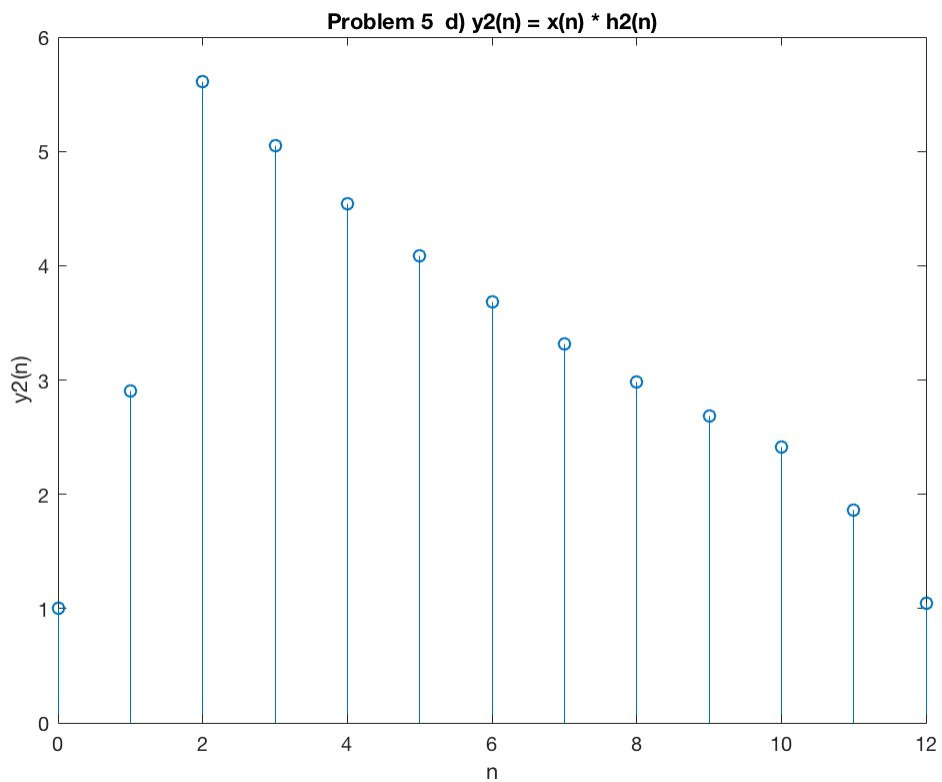
b)

```
y1_n = [1 3 6 5 3];  
n = 0:10;  
h2_n = (0.9).^n;  
y2_n = conv(y1_n, h2_n);  
n = 0:length(y2_n)-1;  
figure;  
stem(n,y2_n);  
xlabel('n');  
ylabel('y2(n)');  
title('Problem 5 b) y2(n) = y1(n) * h2(n)');
```



c)

```
x_n = [1 2 3];  
y2_n = conv(x_n, h2_n);  
n = 0:length(y2_n)-1;  
figure;  
stem(n, y2_n);  
xlabel('n');  
ylabel('y2(n)');  
title('Problem 5 d) y2(n) = x(n) * h2(n)');
```



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