
EE360D - Lecture 1

Table of Contents

Section 1: Basics	1
Exercise 1a	2
Exercise 2a - Append Signals	3
Function	5

Section 1: Basics

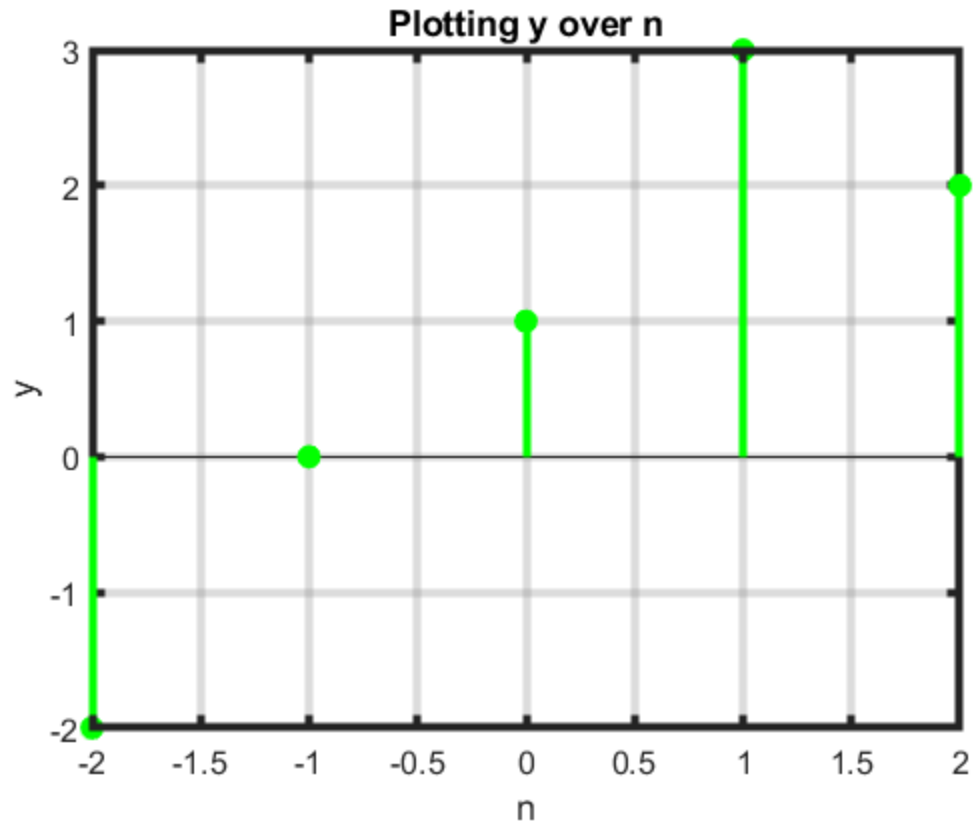
A) Matrices

```
clc
clearvars

n = -2:2;

y = [-2 0 1 3 2];

figure(1)
stem(n,y,'-g','filled','linewidth',3)
title('Plotting y over n')
xlabel('n')
ylabel('y')
prettyGraph
```



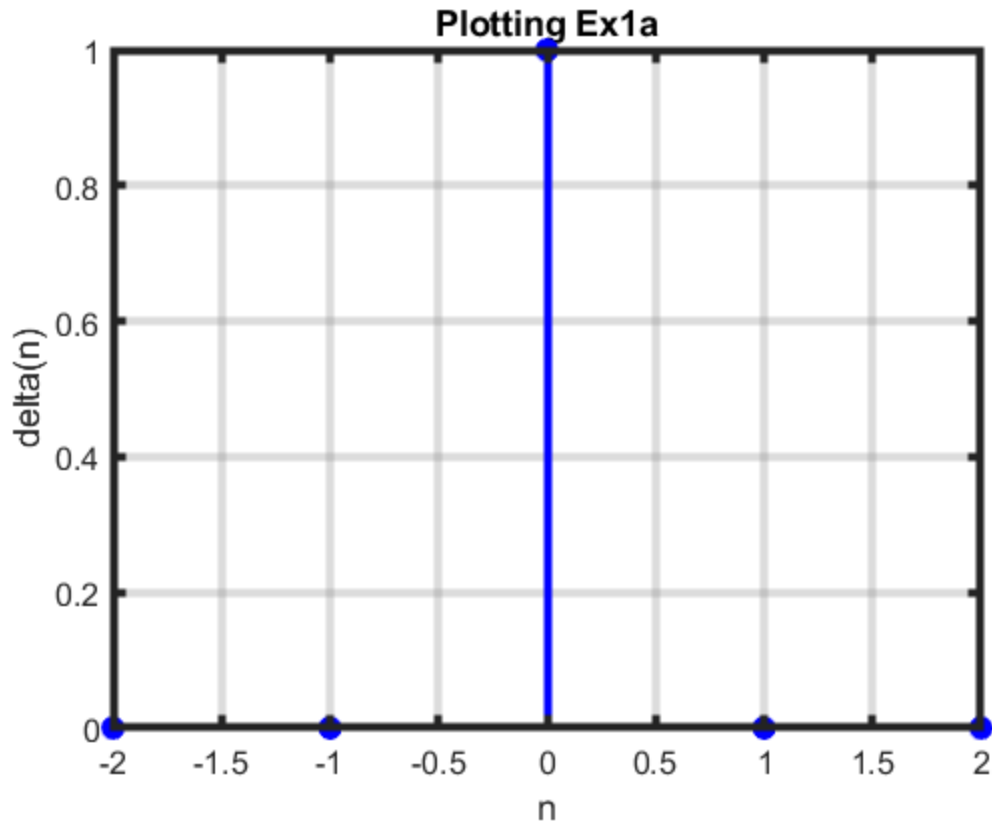
Exercise 1a

```
clearvars
clc
n = [-2 -1 0 1 2]
delta = [0 0 1 0 0]

figure(2)
stem(n,delta,'-b','filled','linewidth',3)
title('Plotting Ex1a')
xlabel('n')
ylabel('delta(n)')
prettyGraph
```

```
n =
    -2    -1     0     1     2

delta =
     0     0     1     0     0
```



Exercise 2a - Append Signals

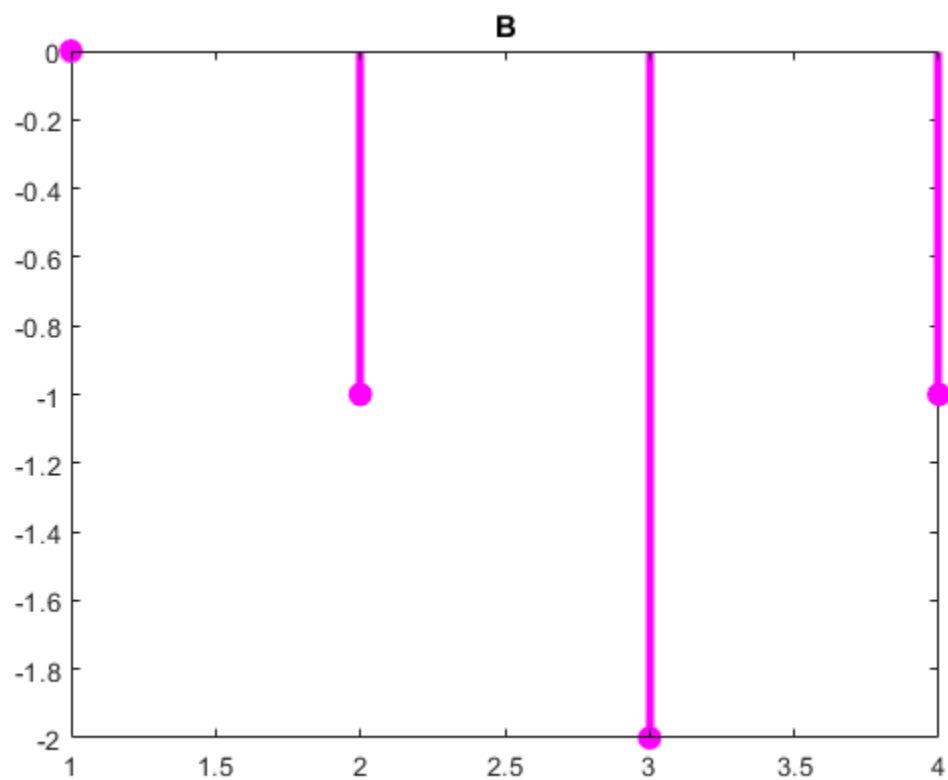
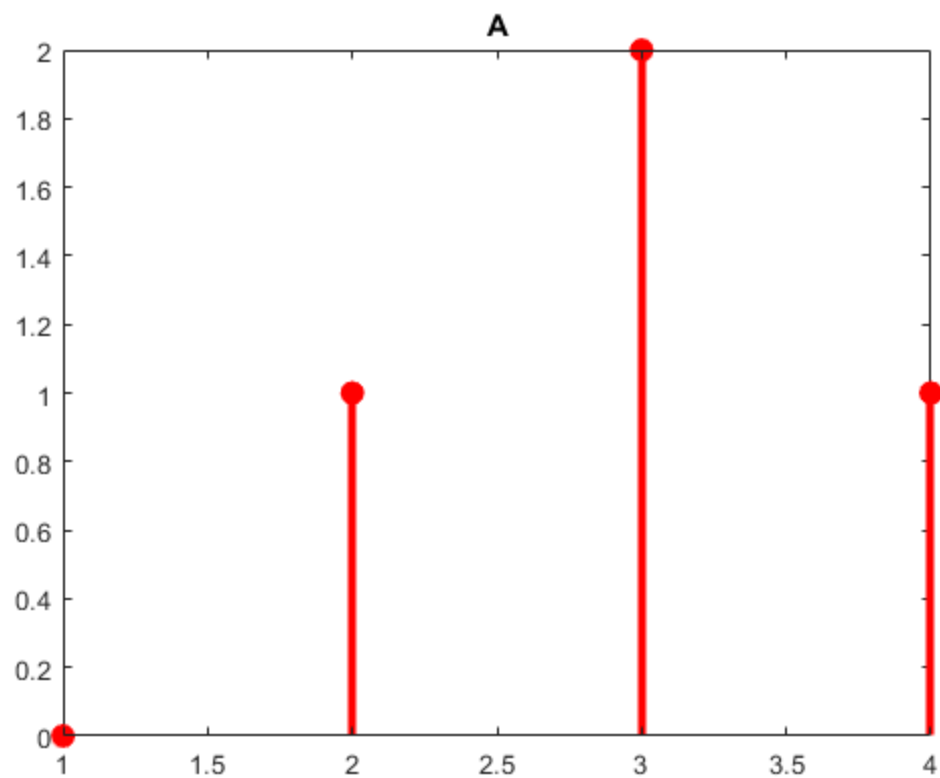
```
A = [0 1 2 1];  
B = [0 -1 -2 -1];
```

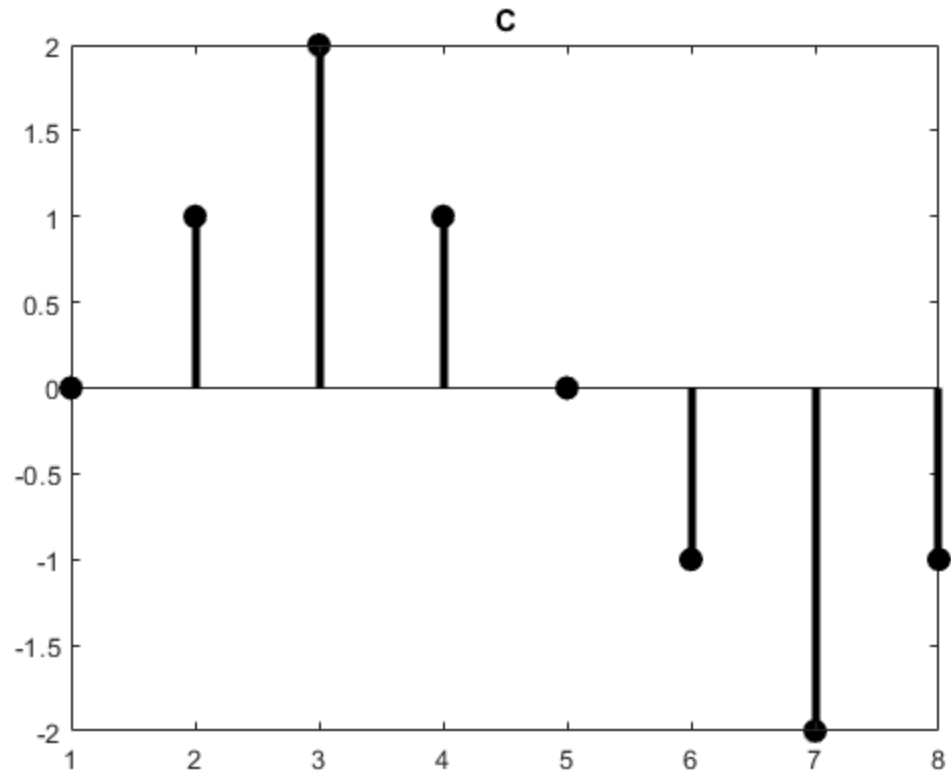
```
C = [A B];
```

```
figure(3)  
stem(A, '-r', 'filled', 'linewidth', 3)  
title('A')
```

```
figure(4)  
stem(B, '-m', 'filled', 'linewidth', 3)  
title('B')
```

```
figure(5)  
stem(C, '-k', 'filled', 'linewidth', 3)  
title('C')
```





Function

```
function prettyGraph
grid on
ax = gca;
ax.FontSize = 12;
ax.LineWidth = 3;
set(gcf, 'color', 'w');
end
```

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