

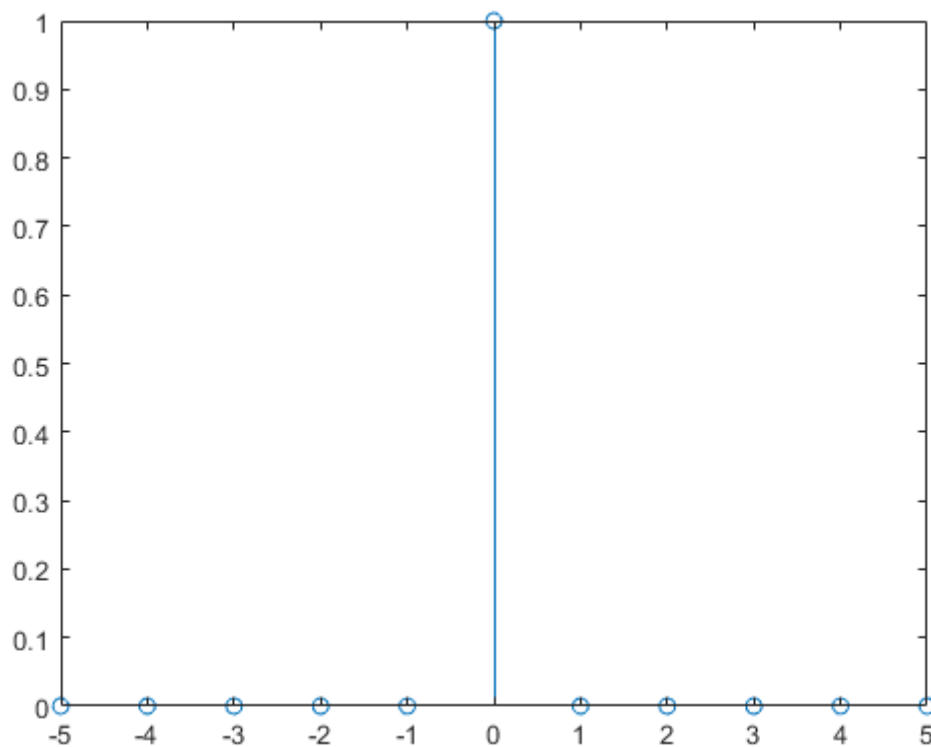
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```
% Generation of elementary signal  
%Aditya Arya - 1MS19EE004
```

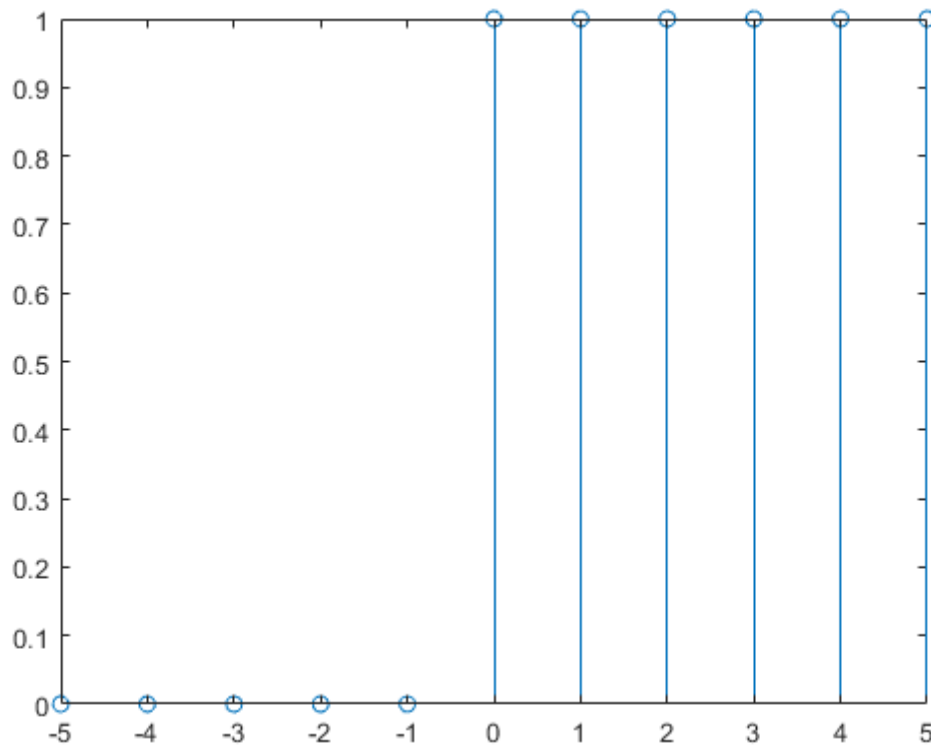
impulse function

```
n = -5:1:5;  
del = (n==0);  
stem(n,del);
```



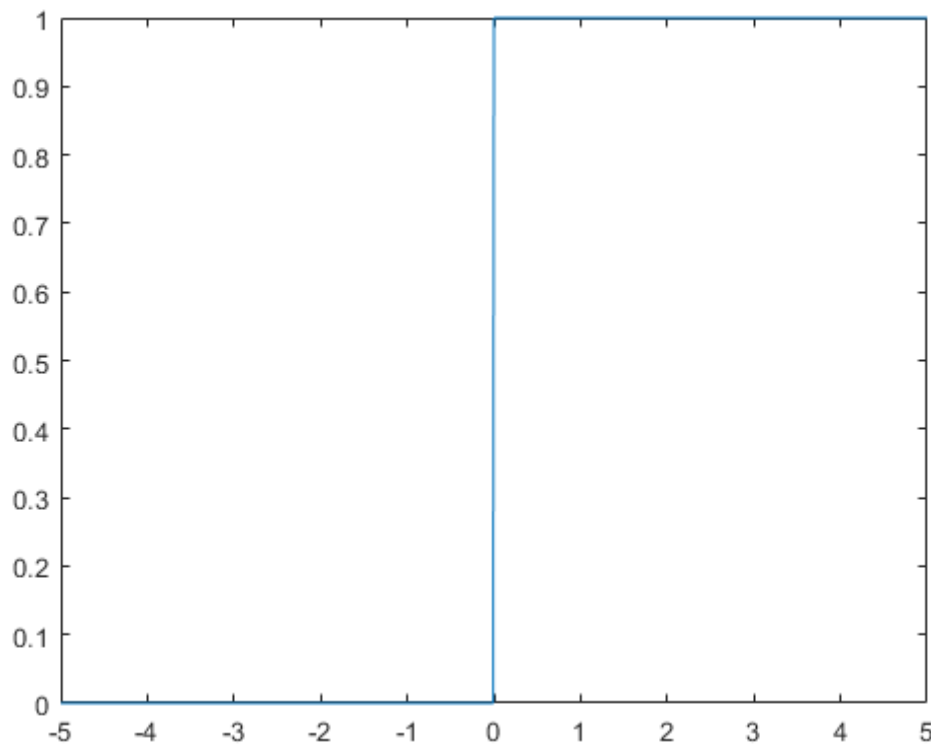
step fuction

```
u = (n>=0);  
stem(n,u);
```



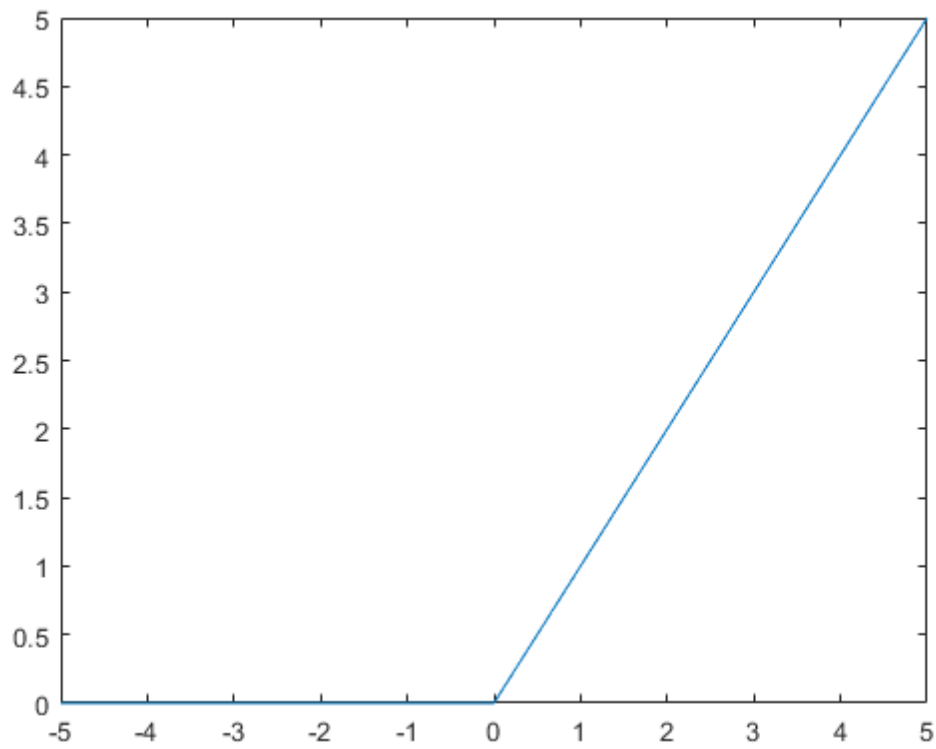
step function cont.

```
n = -5:0.01:5;  
u =(n>=0);  
plot(n,u);
```



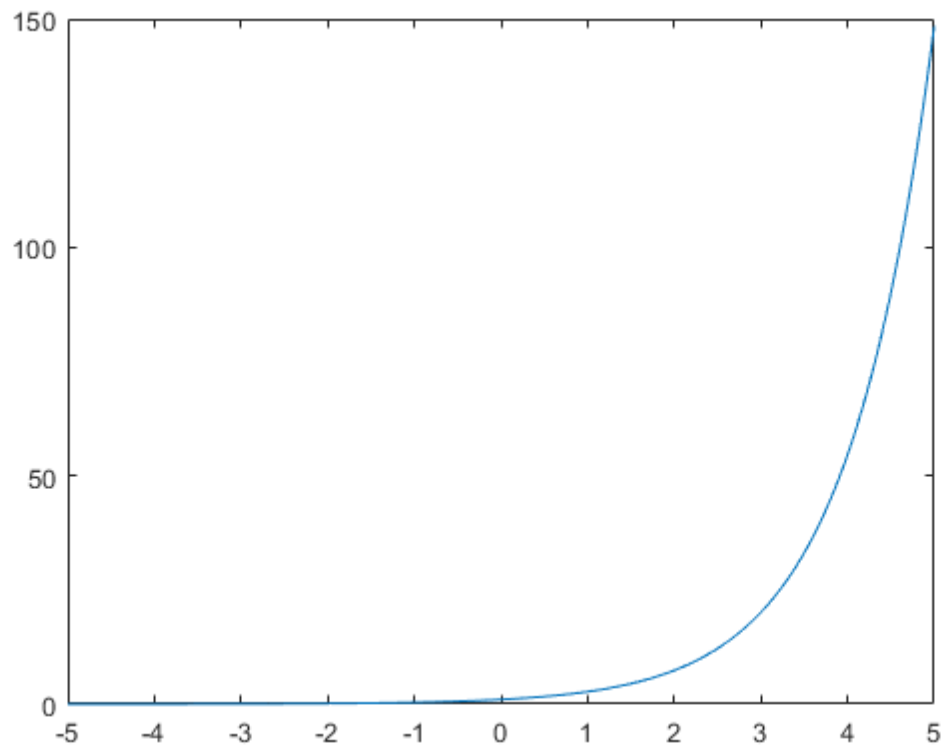
ramp function

```
r= n.*u;  
plot(n,r);
```



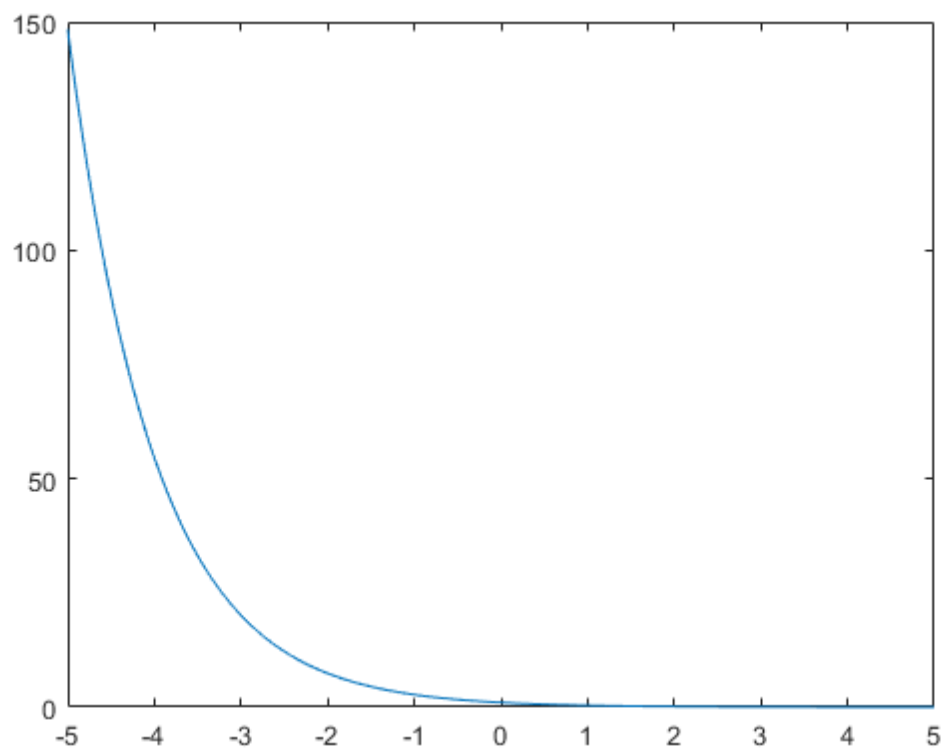
exponential-increasing

```
t= -5:0.01:5;  
r = exp(t);  
plot(t,r);
```



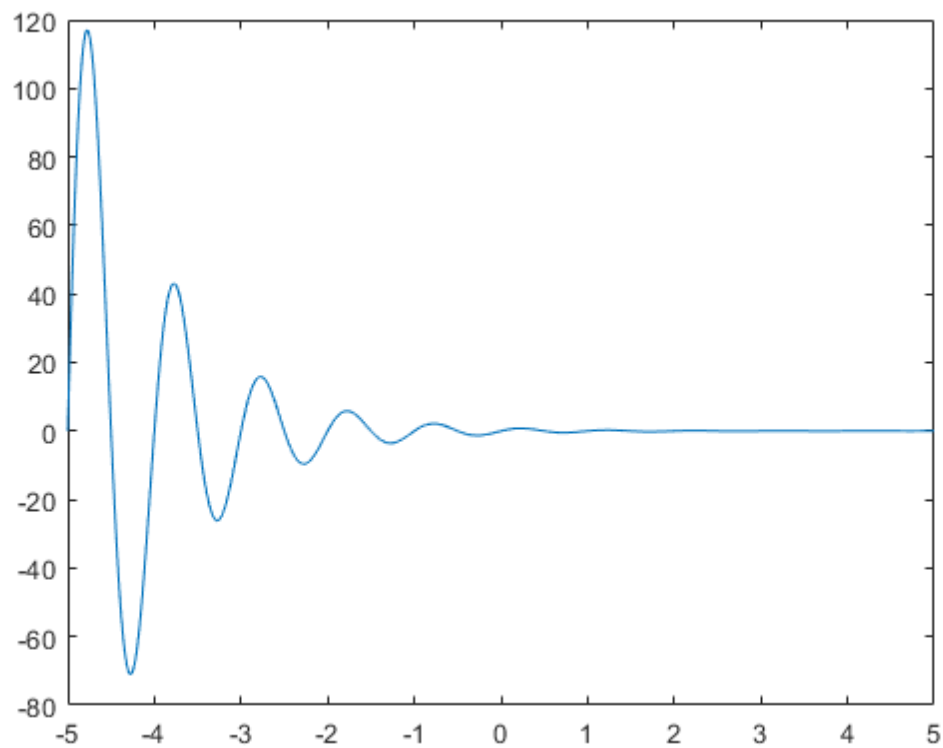
exponential-decreasing

```
r = exp(-t);  
plot(t,r);
```



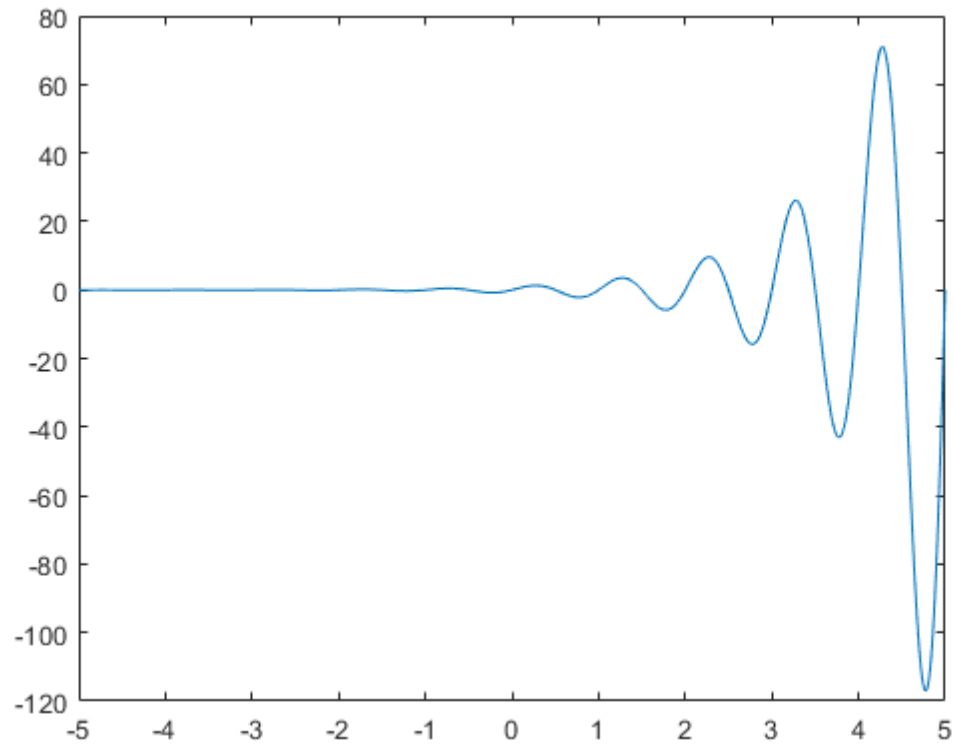
sinusoidal decreasing cont.

```
r = exp(-t).*sin(2*pi*t);  
plot(t,r);
```



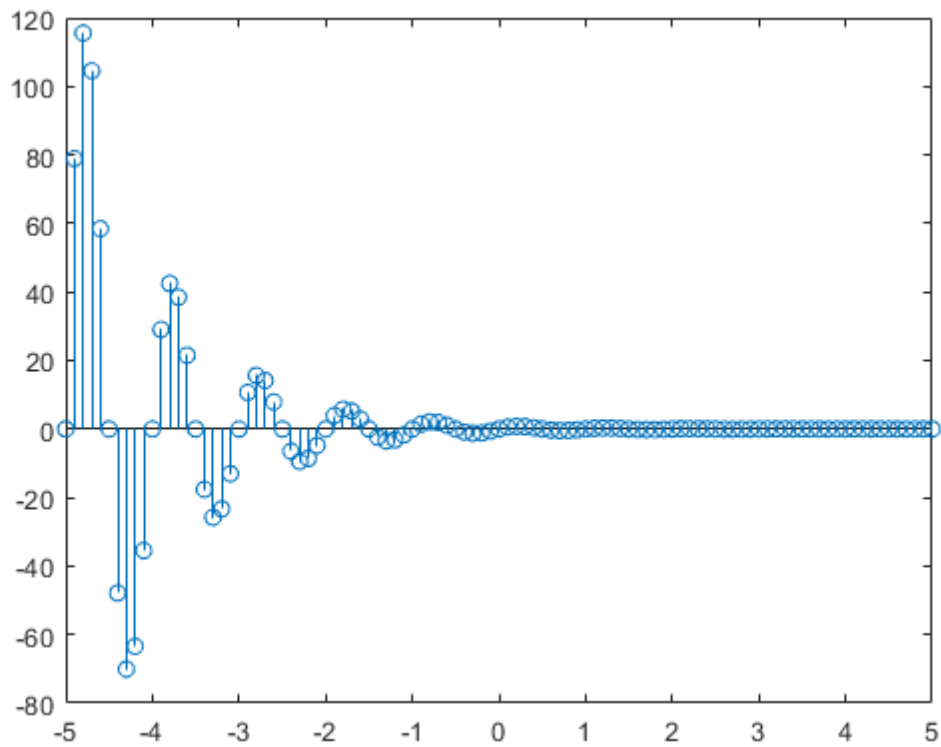
sinusoidal increasing cont.

```
r = exp(t).*sin(2*pi*t);  
plot(t,r);
```



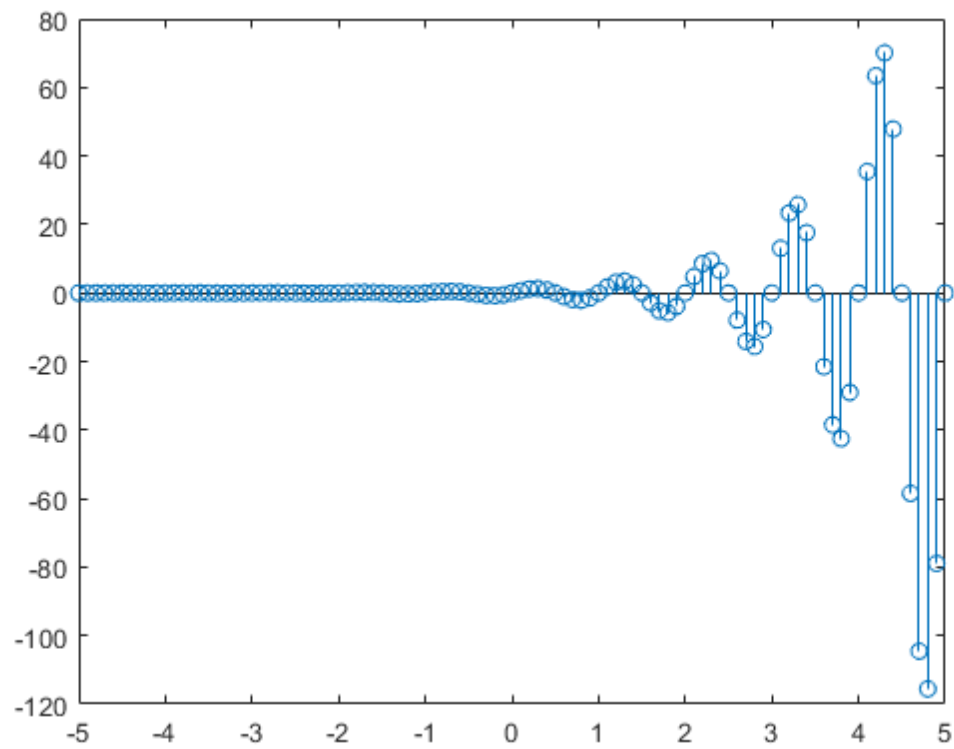
sinusoidal decreasing discrete

```
n=-5:0.1:5;  
r = exp(-n).*sin(2*pi*n);  
stem(n,r);
```



sinusoidal decreasing discrete

```
n=-5:0.1:5;  
r = exp(n).*sin(2*pi*n);  
stem(n,r);
```



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