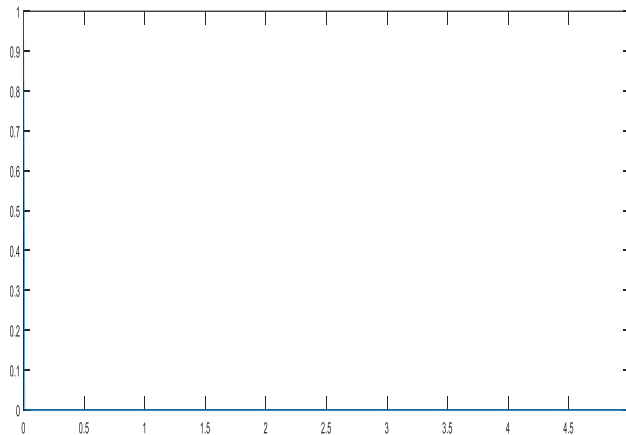


Impulsion de Dirac

Méthode 1 :

```
t=0:0.01:5;  
n=length(t);  
delta=zeros(1,n);  
for i=1:n  
    if t(i)==0  
        delta(i)=1  
    end  
end  
plot(t,delta);
```



Méthode2 :

```
t=0:0.01:5;  
n=length(t);  
delta=[1,zeros(1,n-1)];  
plot(t,delta);
```

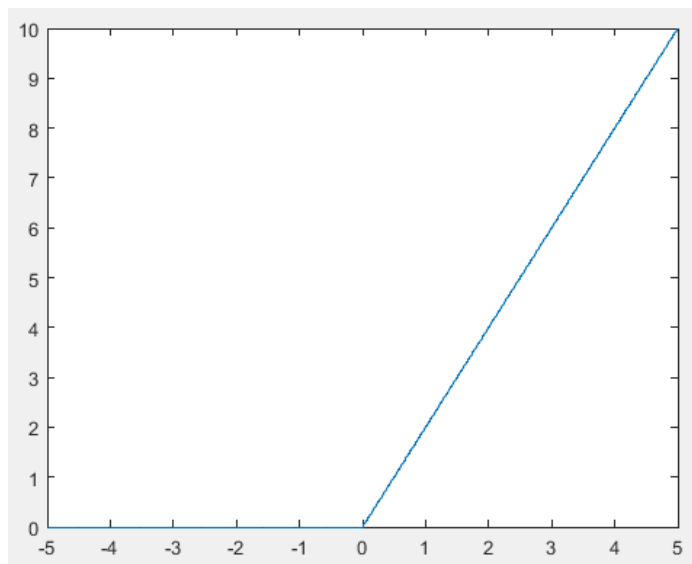
Rampe

Methode1 :

```
t=-5:0.01:5;  
n=length(t);  
delta=zeros(1,n);  
for i=1:n  
    if t(i)>=0  
        delta(i)=a*t(i)  
    end  
end  
plot(t,delta);
```

Methode2:

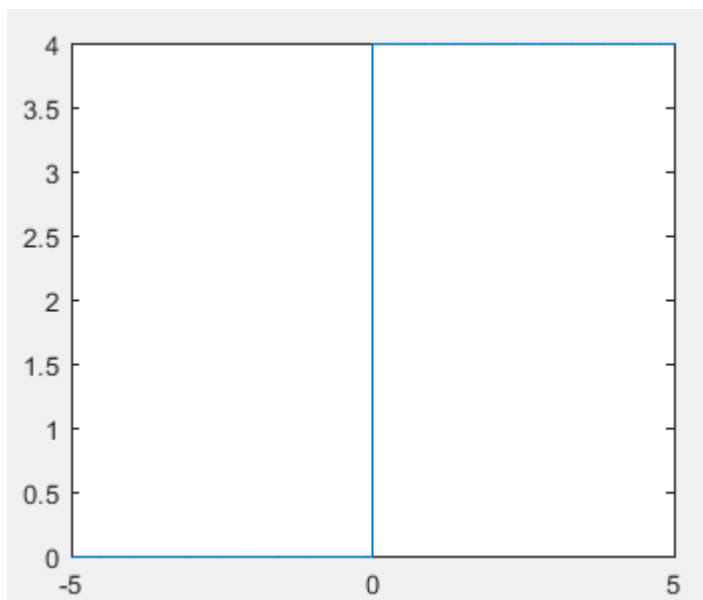
```
t=-5:0.01:5;  
n=length(t);  
a=5;  
rampe=a*t.*(t>=0);  
figure;  
plot(t,rampe);
```



Echelon

Methode1

```
t=-5:0.01:5;  
n=length(t);  
echelon=zeros(1,n);  
a=4;  
for i=1:n  
    if t(i)>=0  
        echelon(i)=a  
    elseif t(i) < 0  
        echelon(i)=0  
    end  
end  
plot(t,delta);
```



methode2

```
t=-5:0.01:5;
n=length(t);
a=4
echelon=a*(t>0);
figure; plot(t, echelon);
```

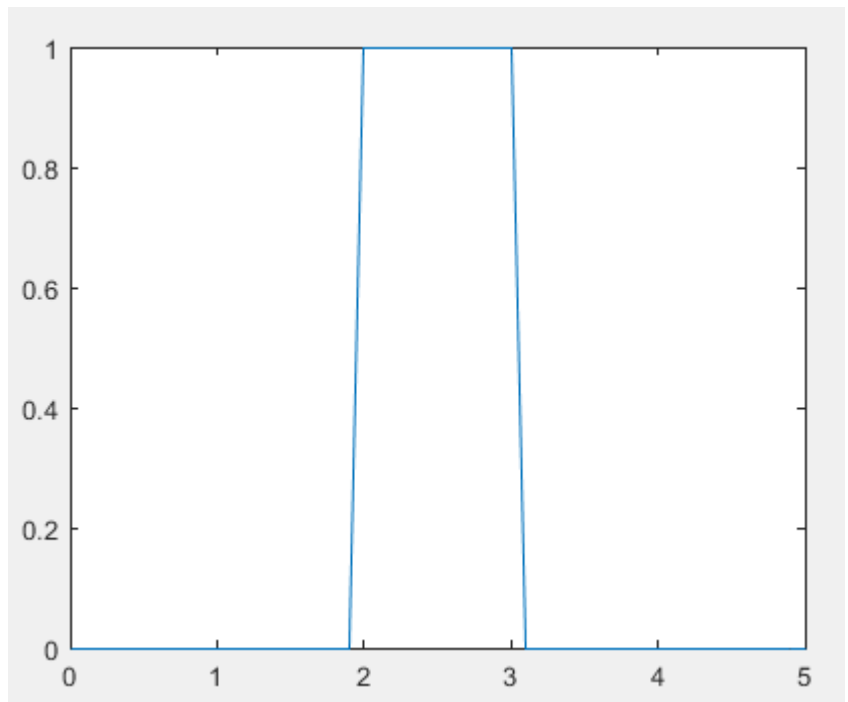
Rectangulaire

Methode1

```
clear all ; clc;
Te=0.1;
t=0:Te:5;
n=length(t);
a=1;
rect=zeros(1,n);
for i=1:n
    if( t(i)>=2 && t(i)<=3 )
        rect(i)=a
    end
end
plot(t,rect);
```

methode2

```
clear all ; clc;
Te=0.1;
t=0:Te:5;
n=length(t);
a=1;
rect=a.*(t<3 & t>2);
plot(t,rect);
```



Triangle

```
clear all; clc;
t=-5:0.01:5;
n=length(t);
a=2;
t2=2;
t1=-2;
m=(t1+t2)/2;
Tri=((a/(m-t1)).*t-((a*t1)/(m-t1))).*(t<m)+((a/(m-t2)).*t-((a*t2)/(m-t2))).*(t>=m);
plot(t,Tri);
```

