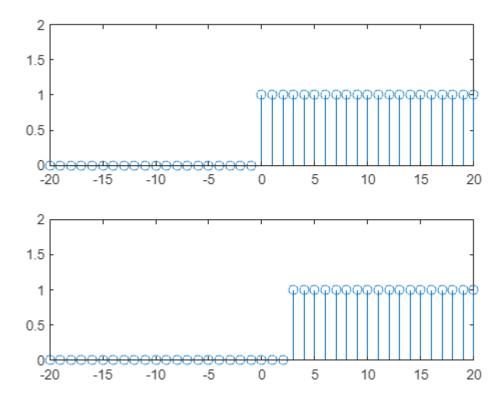
Laboratorium 8

Karolina Piotrowska

Zadanie 2

```
clear all;
n=-20:20;
zero = 1-n(1);
x1=zeros(1,length(n));
x1(zero:end)=ones(1);
subplot(2,1,1), stem(n,x1), axis([-20 20 0 2])
k = zero + 3;
x2 = zeros(1,length(n));
x2(k:end)=ones(1);
subplot(2,1,2), stem(n,x2), axis([-20 20 0 2])
```

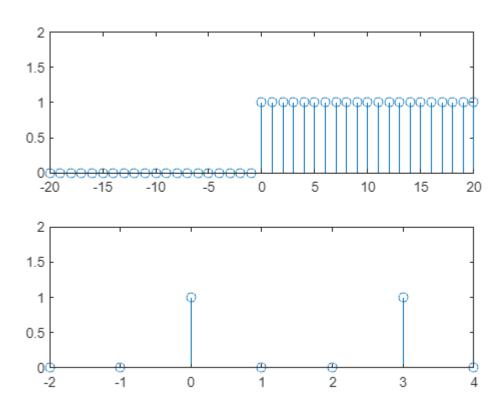


```
clear all;
n=-2:4;
x0 = 1-n(1);
y=zeros(1,length(n));
```

```
y(x0)=ones(1);

xk = x0+3;
y(xk)=ones(1);

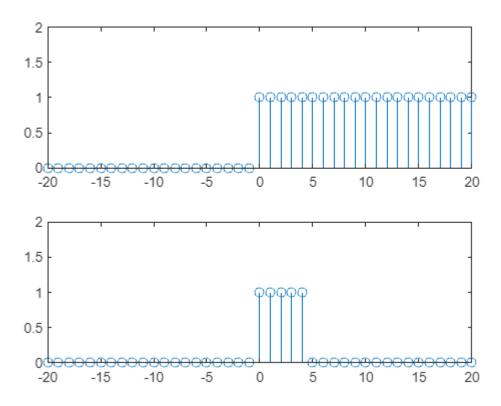
stem(n,y), axis([-2 4 0 2])
```



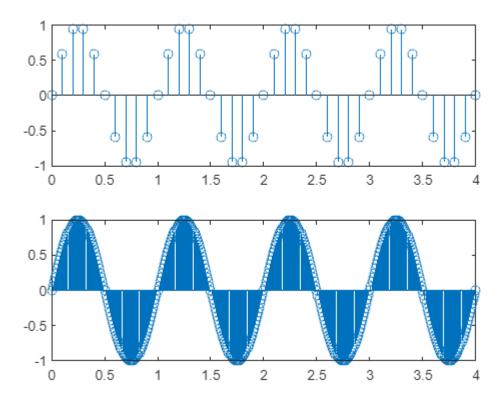
```
clear;
n=-20:20;
zero = 1-n(1);

x1=zeros(1,length(n));
x1(zero:end)=ones(1);
k = zero + 5;
x2 = zeros(1,length(n));
x2(k:end)=ones(1);

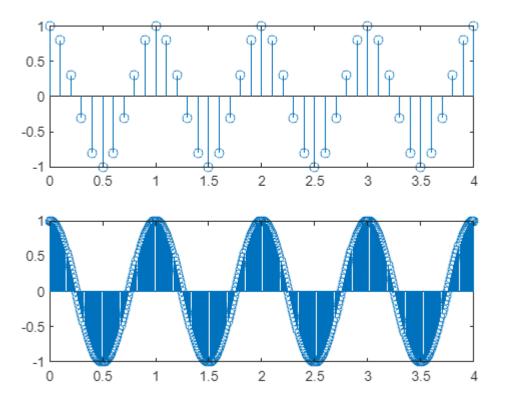
x = x1-x2;
stem(n,x), axis([-20 20 0 2])
```



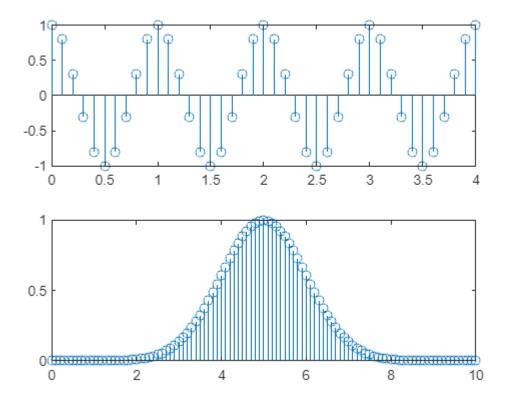
```
clear;
t1=0:0.1:4;
t2=0:0.01:4;
y1 = sin(2*pi*t1);
y2 = sin(2*pi*t2);
subplot(2,1,1), stem(t1, y1);
subplot(2,1,2), stem(t2, y2);
```



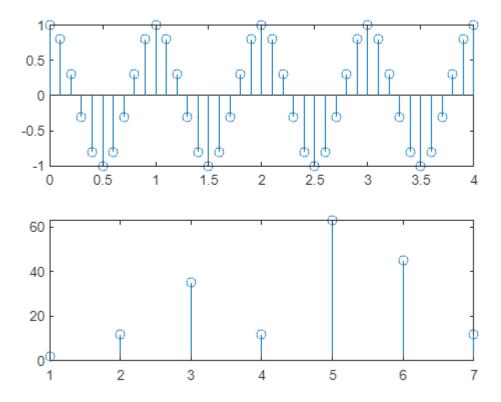
```
clear;
t1=0:0.1:4;
t2=0:0.01:4;
y1 = cos(2*pi*t1);
y2 = cos(2*pi*t2);
subplot(2,1,1), stem(t1, y1);
subplot(2,1,2), stem(t2, y2);
```



```
clear;
t = 0:0.1:10;
sigma = 1;
c = 5;
y = gaussmf(t, [sigma, c]);
stem(t,y);
```



```
clear;
y1 = [1 3 5 6 7 9 2];
y2 = [2 4 7 2 9 5 6];
y3 = y1.*y2;
stem(y3);
```



```
clear;
n=0:20;
x=[1,zeros(1,20)];
a=[1];
b=[1 -0.5 0.7];
y=filter(a,b,x);
stem(n,y);
```

