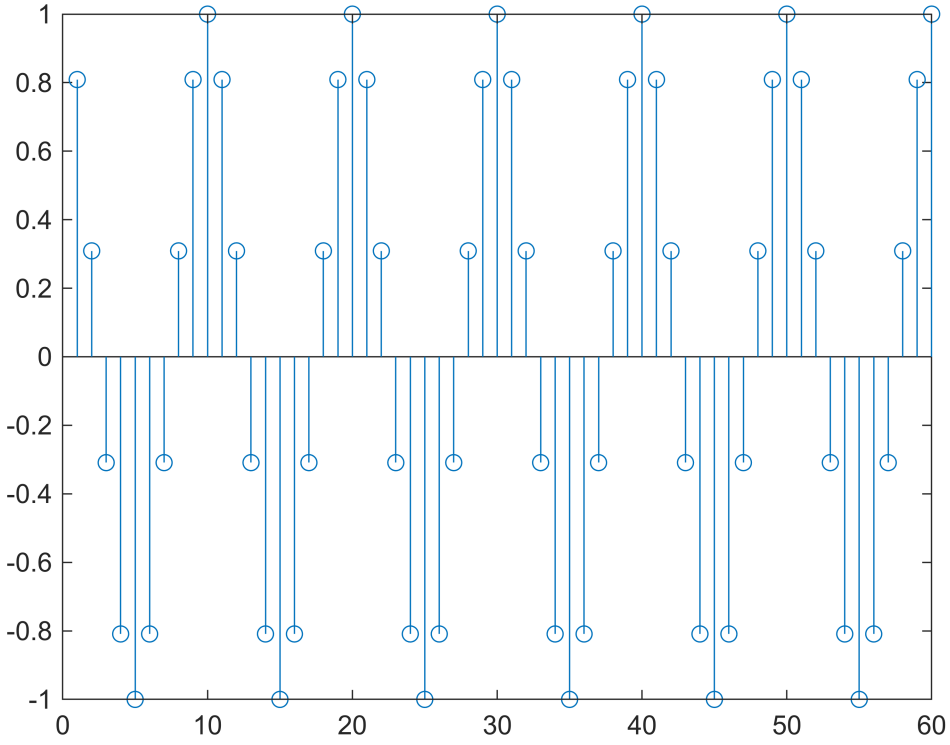
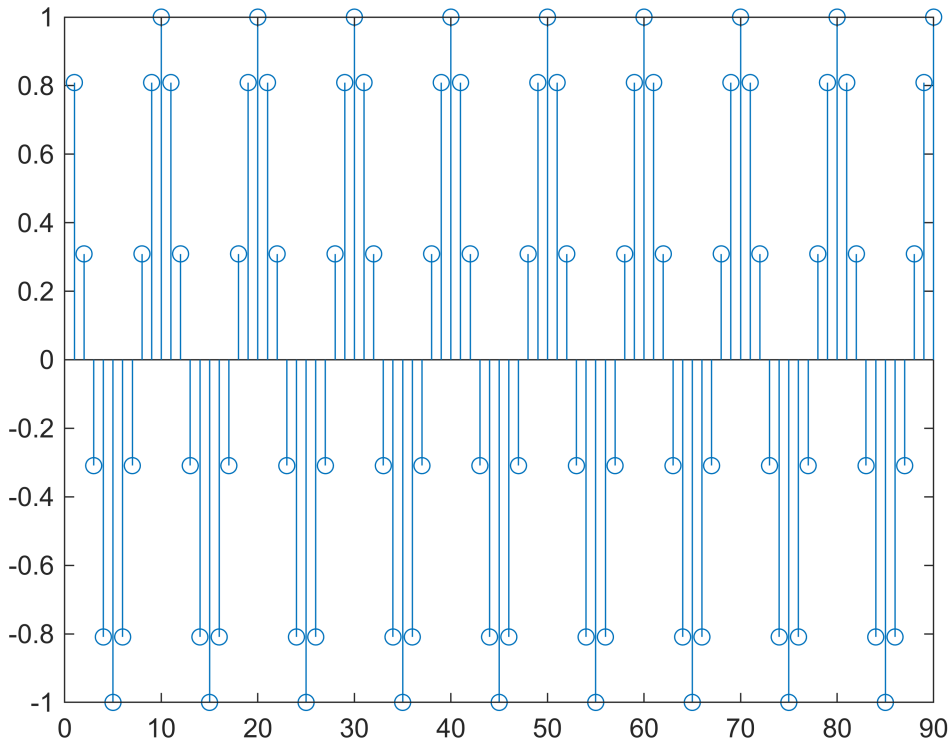
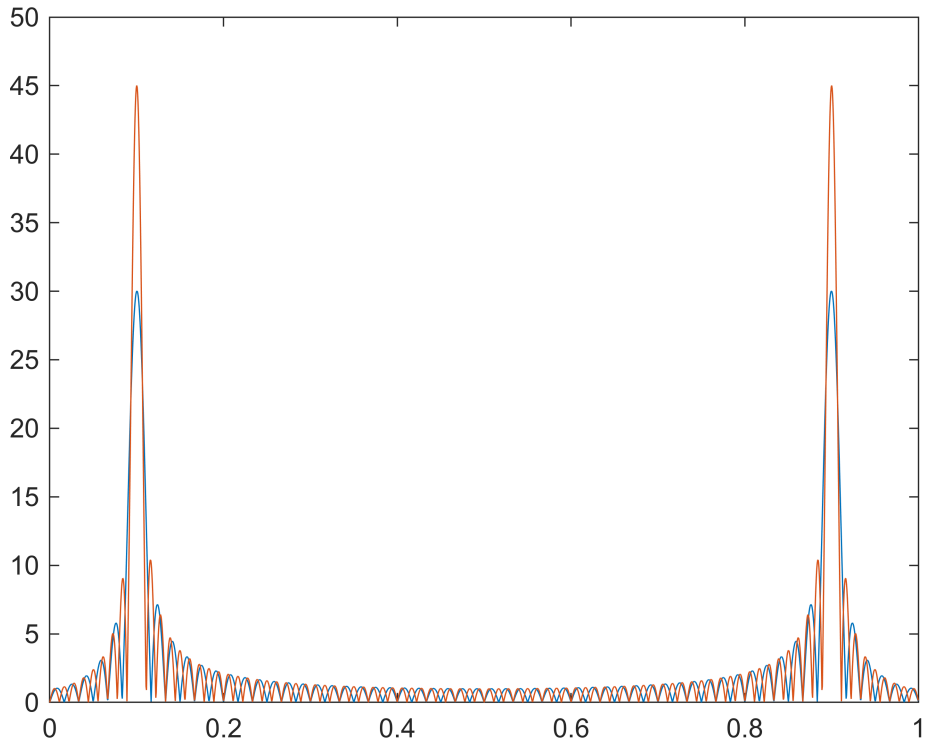
```
%Q1
f=1/10;
t2=1:60;
t3=1:90;
x2=cos(2*pi*t2*f);
x3=cos(2*pi*t3*f);
figure (1);
stem(t2,x2);
```




```
figure (2);
stem(t3,x3);
```




```
N=2048;
f=0:N-1 ;
fn=f/N ;
fft2=fft(x2,N);
fft3=fft(x3,N);
abs2=abs(fft2);
abs3=abs(fft3);
plot(fn,abs2);
hold on ;
plot(fn,abs3);
```




```
%Lorsque le nombre de l'échantillonage augmente l'amplitude augmente
%Réaliser par: Wassim ARACHE ,Houda MAZROUA et Maroua AIT SI.
```