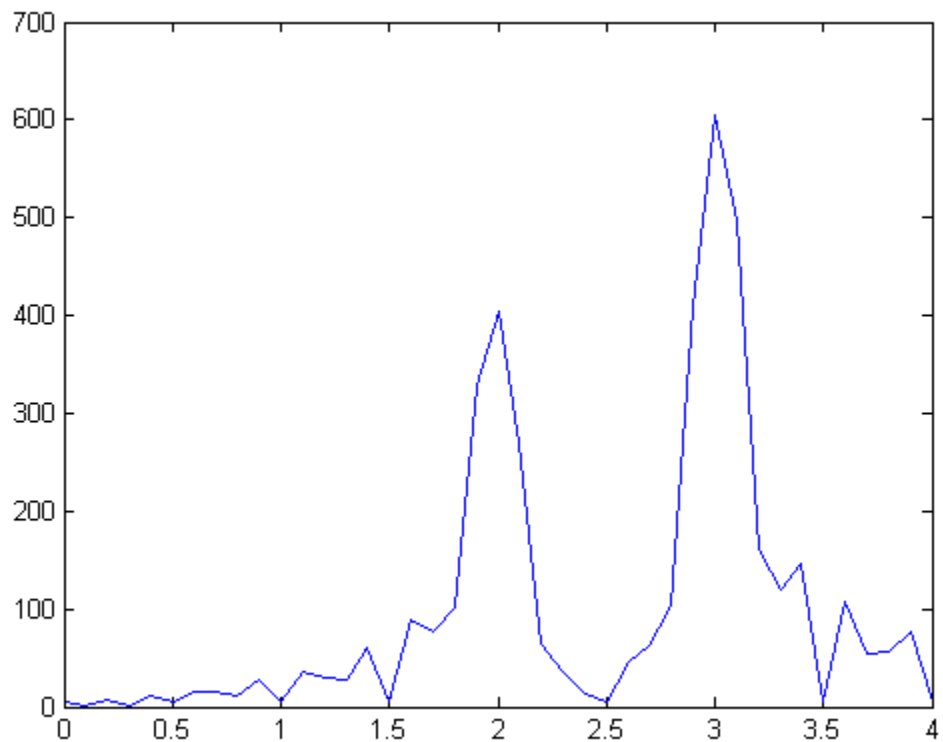

```
clc;
clear all;
close all;
%time
t=0:0.01:4;
%frequency variable
f=0:0.1:4;
% input signal
a1=2;
a2=3;
f1=2;
f2=3;
x=a1*cos(2*pi*f1*t)+a2*cos(2*pi*f2*t);
m=numel(t);
n=numel(f);
for i=1:n
    X(i)=0;
    for j=1:m
        X(i)=X(i)+x(j)*exp(-1i*2*pi*f(i)*t(j));
    end
end
plot(f,abs(X));
%Name=k.vivek
%roll.no=20A91A04L8
%Date=14/12/2021
```



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