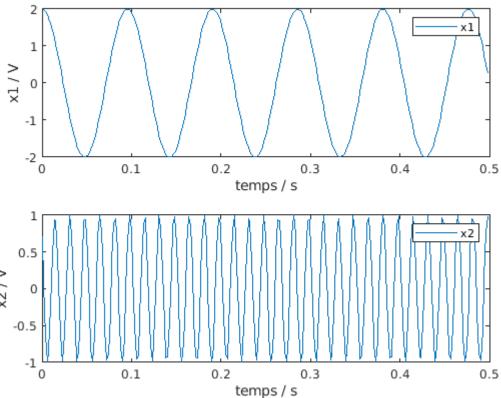
```
%% Partie 1 : question 5b
close all;
clear all;
f1=10.5;
f2=60;
N=256;
Fe=512;
Te=1/Fe;
Tmax = (N-1)*Te;
t=0:Te:Tmax;
a=2;
x1=a*cos(2*pi*f1*t);
x2 = cos(2*pi*f2*t+pi/4);
figure(1)
subplot(211)
plot(t,x1);
xlabel('temps / s');
ylabel('x1 / V');
legend('x1');
subplot(212)
plot(t,x2);
xlabel('temps / s');
ylabel('x2 / V');
legend('x2');
```



```
corrx1x2=xcorr(x1,x2,'unbiased'), %division de xcorr par N-m
corrx1x2 = 1x511
         1.7635
                    1.2528
                             0.6313
                                     0.0824
                                             -0.2580
                                                    -0.3439
                                                              -0.2240 •••
   1.9976
figure(2)
largcorr=N-1;
tau=(-largcorr:largcorr)*Te;
plot(tau,corrx1x2(N-largcorr:N+largcorr), 'r.')
xlabel('Temps tau /s');
ylabel('corr(x1,x2)/V^2');
```

