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clear all;
close all;
f1 = 2;
f2 = 5.34;
N = 256;
Te = 2/N;
Fe = 1/Te;
t = (0:N-1)*Te;
x1 = cos(2*pi*f1*t+pi/4);

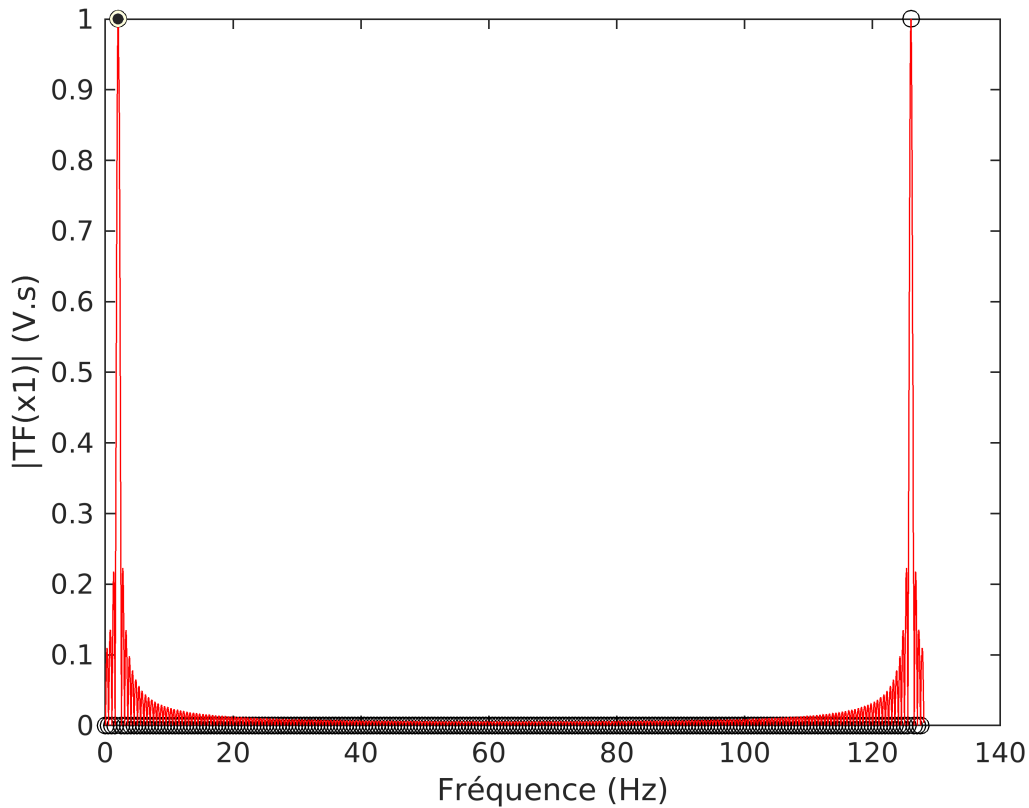
x2 = 2*cos(2*pi*f2*t+pi/3);
df = 1/(N*Te);
freq = 0:df:Fe-df;
freq2 = 0:df/100:Fe-df/100;

X1 = abs(Te*fft(x1,N));
X100 = abs(Te*fft(x1,100*N));

figure(1);
plot(freq,X1,'ok',freq2,X100,'r');
%plot(freq(1:N/16),X1(1:N/16),'ok',freq2(1:100*N/16),X100(1:100*N/16),'r');

xlabel('Fréquence (Hz)');
ylabel('|TF(x1)| (V.s)');

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X2 = abs(Te*fft(x2,N));

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X200 = abs(Te*fft(x2,100*N));

figure(2);
plot(freq,X2,'ok',freq2,X200,'r');
%plot(freq(1:N/8),X2(1:N/8),'ok',frequ2(1:100*N/8),X200(1:100*N/8),'r');

xlabel('Fréquence (Hz)');
ylabel('|TF(x2)| (V.s)');

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