

# Muestreo

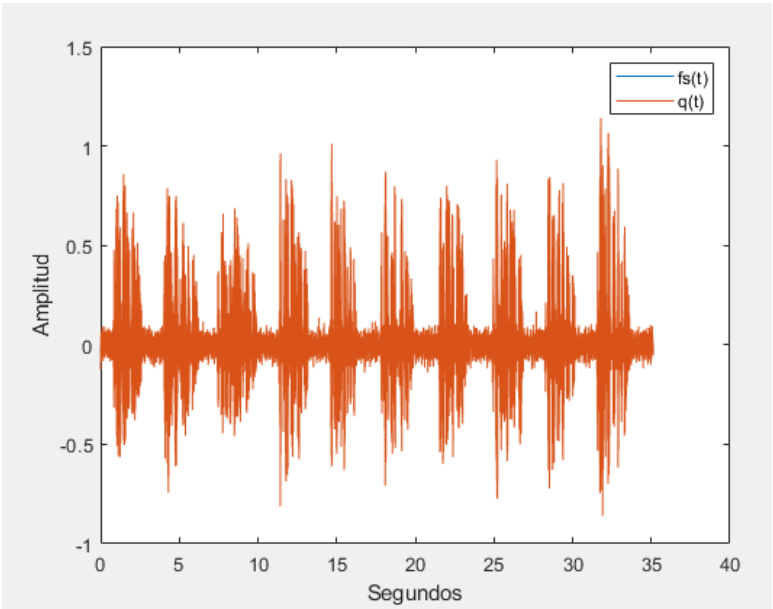
## Código:

```
1  close all
2  clear all
3
4  filename = 'OSR_us_000_0016_8k.wav';
5  [y,Fs] = audioread(filename);
6  ts=1/Fs;
7  SQR=30;
8
9  y = y(:,1);
10 t = 0:ts:(length(y)*ts)-ts;
11
12 figure(1)
13 plot(t,y);
14 xlabel('Segundos');
15 ylabel('Amplitud');
16
17 S = bandpower(y);
18
19
20 p=1:16;
21
22 IDS=max(y)+abs(min(y));
23 IDQ=2.^p;
24
25 q=IDS./IDQ;
26
27 %SQR=10*log10(6)+20*log10(IDS./q);
28 SQR=10*log10((6*IDS^2)./q.^2);
29
30 qn=y/q(1);
31
32 hold on
33
34 plot(t,qn);
35
36
37
38 [p' SQR']
39
```

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1.0000	13.8021
2.0000	19.8227
3.0000	25.8433
4.0000	31.8639
5.0000	37.8845
6.0000	43.9051
7.0000	49.9257
8.0000	55.9463
9.0000	61.9669
10.0000	67.9875
11.0000	74.0081
12.0000	80.0287
13.0000	86.0493
14.0000	92.0699
15.0000	98.0905
16.0000	104.1111

(a) Tabla  $\rho$  vs SQR



(b)