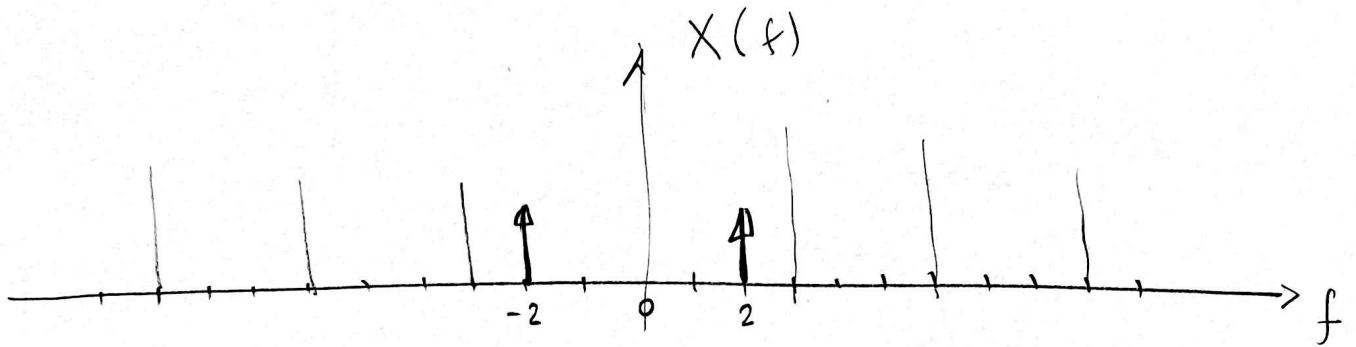
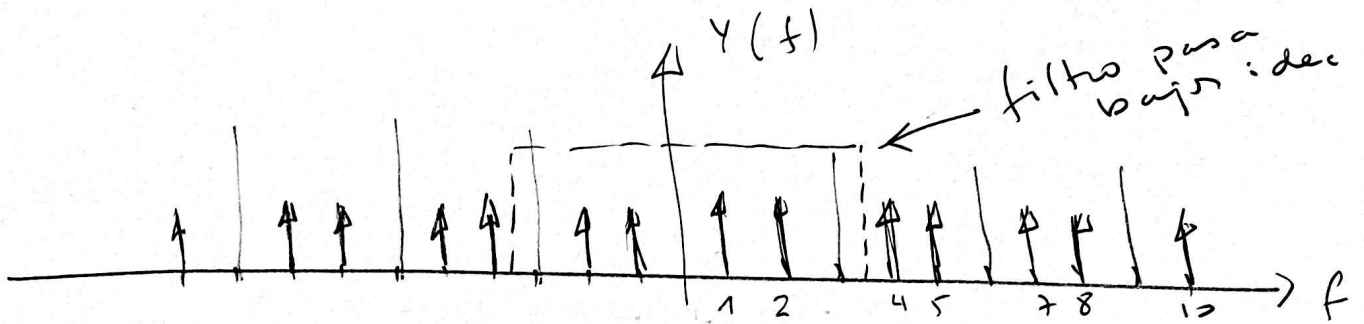


B1)

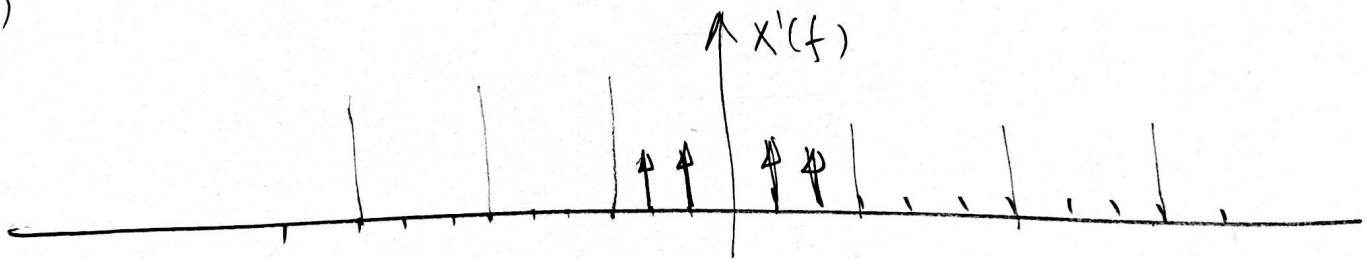
a)



b)



c)



d)  $x'(t)$  es la suma de dos sinusoides una de 1kHz y la otra de 2kHz.



B2 cont)

a) ...  $W = P - H$

$$\hat{f} = \underbrace{\lambda [ \lambda H^T H + (P-H)^T (P-H) ]^{-1}}_A H^T g$$

c)  $\hat{F} = AG$

B3

Ya =

0	0	0	0	0	0
0	1.0000	1.0000	1.0000	1.0000	0
0	2.0000	2.0000	2.0000	2.0000	0
0	3.0000	3.0000	3.0000	3.0000	0
0	0	0	0	0	0

Yb =

0	0	0	0	0	0
0	-1.0000	-1.0000	-1.0000	-1.0000	0
0	1.0000	1.0000	1.0000	1.0000	0
0	0	0	0	0	0
0	0	0	0	0	0

Yc =

0	0	0	0	0	0
0	0	0	0	0	0
0	3	3	3	3	0
0	3	3	3	3	0
0	0	0	0	0	0

Yd =

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

Ye =

0	0	0	0	0	0
-3	-3	-3	-3	-3	-3
-3	-3	-3	-3	-3	-3
0	0	0	0	0	0
0	0	0	0	0	0

Yf =

0	1	2	3	4	5
0	1	2	3	4	5
0	1	2	3	4	5
0	1	2	3	4	5
0	1	2	3	4	5

B4

Xa =

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

Xb =

0	0	0	0	0	0
0	1	1	1	0	0
0	1	1	1	1	0
0	1	1	1	1	0
0	0	1	1	1	0

Xc =

0	0	0	0	0	0
0	0	0	0	0	0
0	0	1	0	0	0
0	0	0	1	0	0
0	0	0	0	0	0

Xd =

0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0