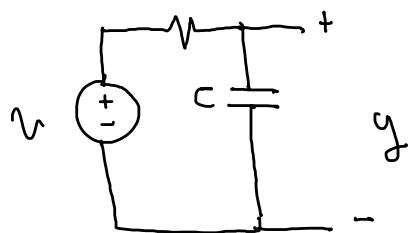


Ramírez Colónreto Luis Fernando
2CM18

"Tarea 2.7: Filtro pasa bajas y pasa altas de 1er orden"

frec. de corte $f_c = \frac{1}{2\pi RC}$



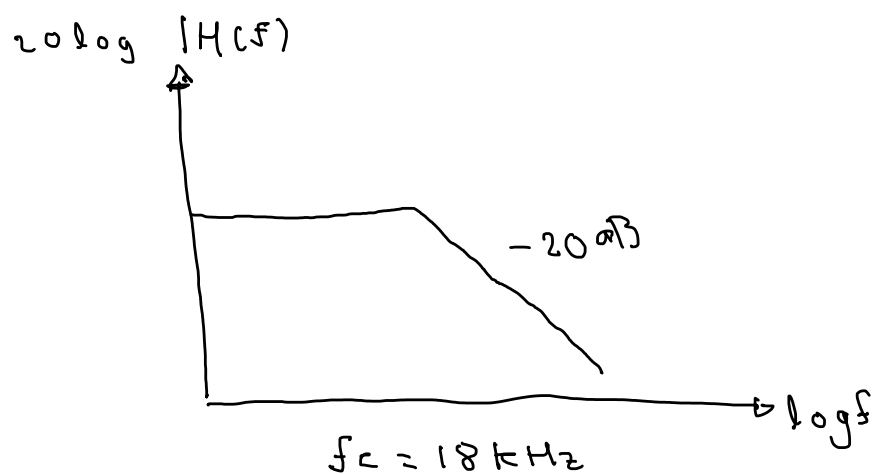
1- $f_c = 18 \text{ kHz}$

Escogemos $[R = 100 \Omega]$

$$18 \times 10^3 = \frac{1}{2\pi \times 100 \times C}$$

$$C = 88.419 \times 10^{-9} \text{ F}$$

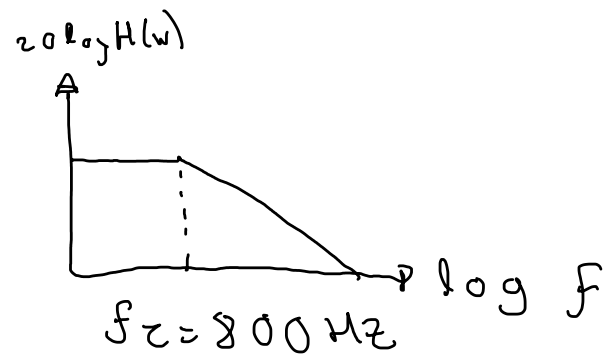
$C = 88.419 \text{ nF}$



$$2. f_c = 800 \text{ Hz}$$

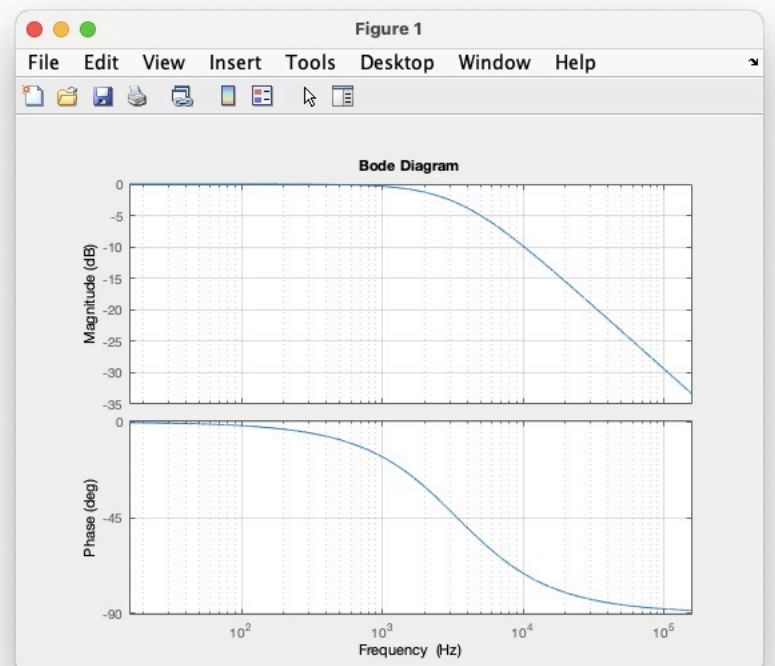
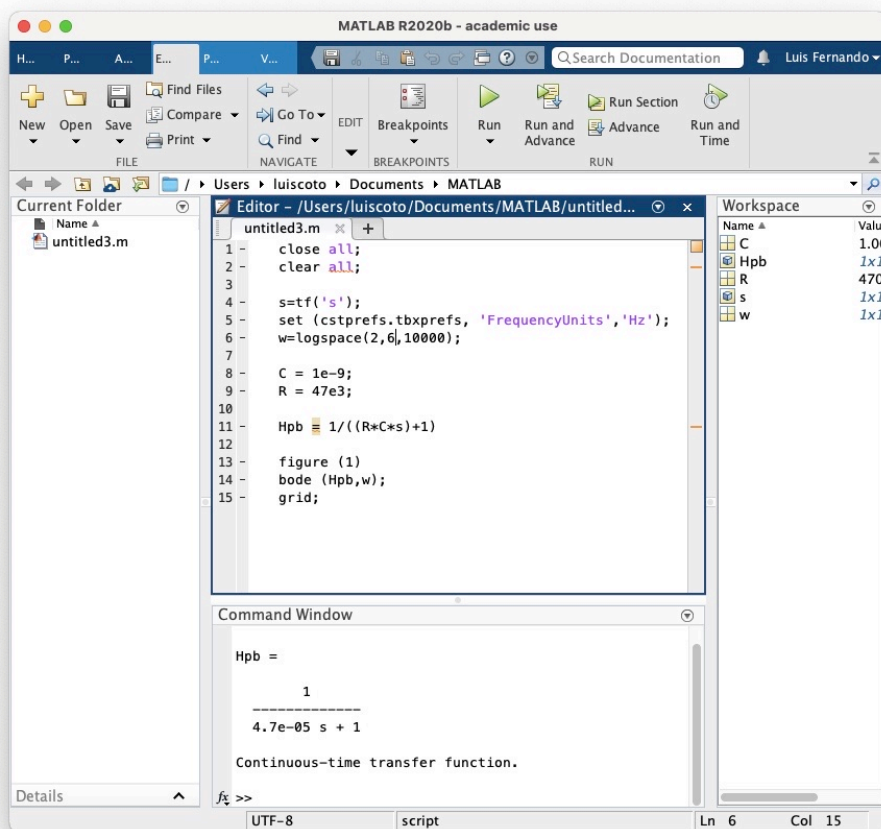
$$\text{Escoja } R = 10$$

$$C = \frac{1}{2\pi \times 10 \times 800} = 19.894 \text{ nF}$$



Simulaciones en Matlab

FPB1



FPA1

