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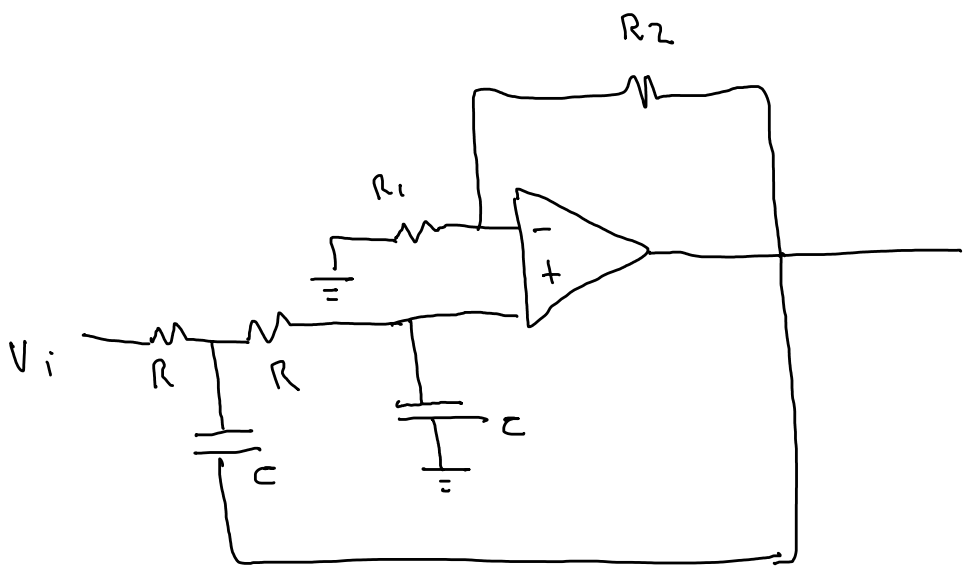
# Tarea 2.8 Filtro Pasa Bajas y pasa altas de 2° orden




$$f_c = \frac{1}{2\pi R_c}$$

1. $f_c = 7.5\,kHz$

$R = 1\,k\Omega$

$$f_c = \frac{1}{2\pi R C}$$

$$C = \frac{1}{2\pi R F_c} = \frac{1}{2\pi \times 1\times10^{3} \times 7.5\times10^{3}}$$

$$C = \frac{6.67\times10^{-8}}{\pi}\,F$$

$C = 2.1231\times10^{-8}\,F$

$R = 1k\Omega$

2. $f_c = 800\,Hz$

$R = 100$

$$C = \frac{1}{2\pi R f_c} = \frac{1}{2\pi \times 100 \times 800}$$

$$C = \frac{6.25}{\pi}\,\mu F$$

$C = 1.9894\,\mu F$

$R = 100\,\Omega$