$$V_{1(s)}$$
 $S = \frac{1}{SC}$
 $V_{0}(s)$

$$I = \frac{V_i}{R + \frac{1}{sc}}$$

$$V_0 = \frac{V_1}{R + \frac{1}{sC}} \cdot \frac{1}{sC} \quad \Rightarrow \quad \frac{V_0}{V_1} = \overline{T}(s) = \frac{1}{sC(R + \frac{1}{sC})} = \frac{1}{T}$$

$$= \frac{1}{S \cdot RC + 1} = \frac{1}{RC} \cdot \frac{1}{S + \frac{1}{PC}}$$

$$f_{c} = \frac{\omega_{o}}{2\pi} = \frac{1}{2\pi} \cdot \frac{1}{12c}$$

$$\frac{1}{L} w_0 = \frac{1}{RC} \sim w = 2\pi C$$

$$\frac{N(s)}{D(s)} = \frac{S^{3} + 2S^{7} + 1S - 10}{S^{2} + 10S - 12} = \frac{(s+m)(s+n)(s+p)}{(s+a)(s+b)} + \frac{Zen}{A}$$

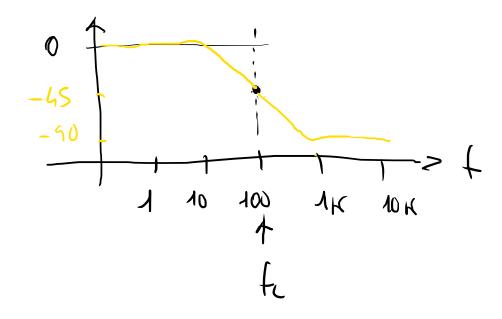
$$F(s) = \frac{1}{PC} \frac{1}{S + QC}$$

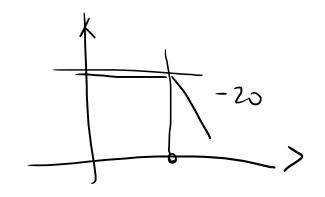
$$L_{dB} = 20 \log_{10} \frac{V_{m}}{V_{nf}} = \frac{1}{20}$$

$$\log_{10} \frac{V_{m}}{V_{R}} = \frac{L}{20}$$

$$\log_{10} \frac{V_{m}}{V_{R}} = 10$$

$$\log_{10} \frac{V_{m}}{V_{n}f} = 10$$





$$F(s) = \frac{1}{s+a}$$