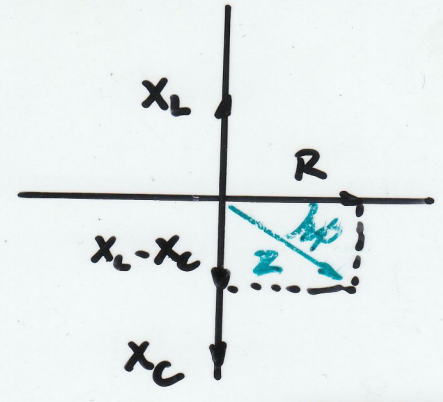
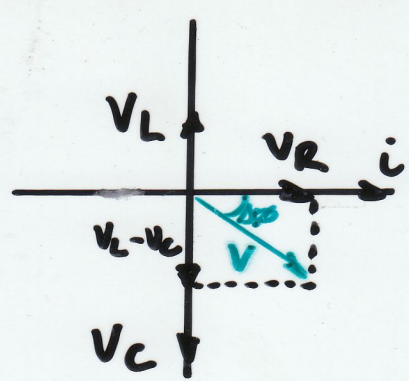
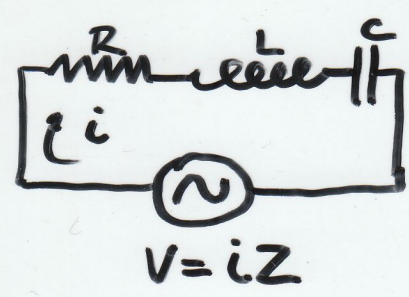


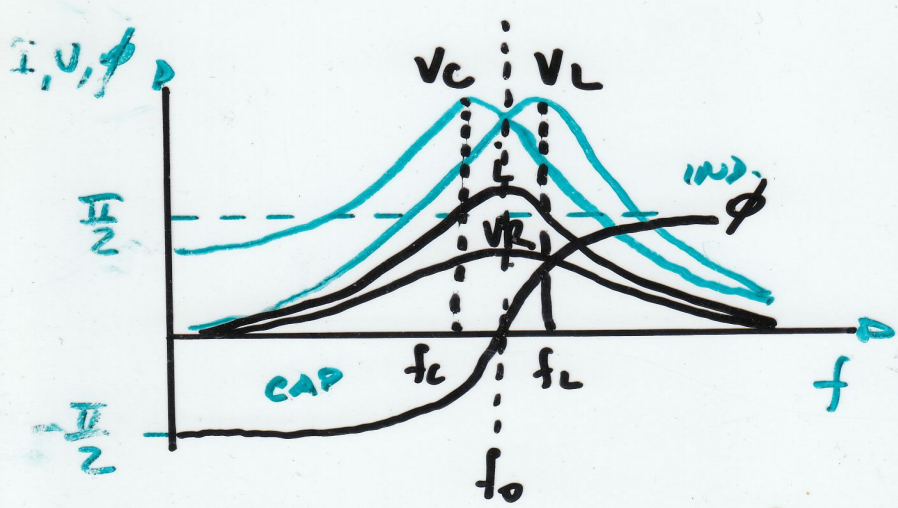
### 3) RLC SERIE



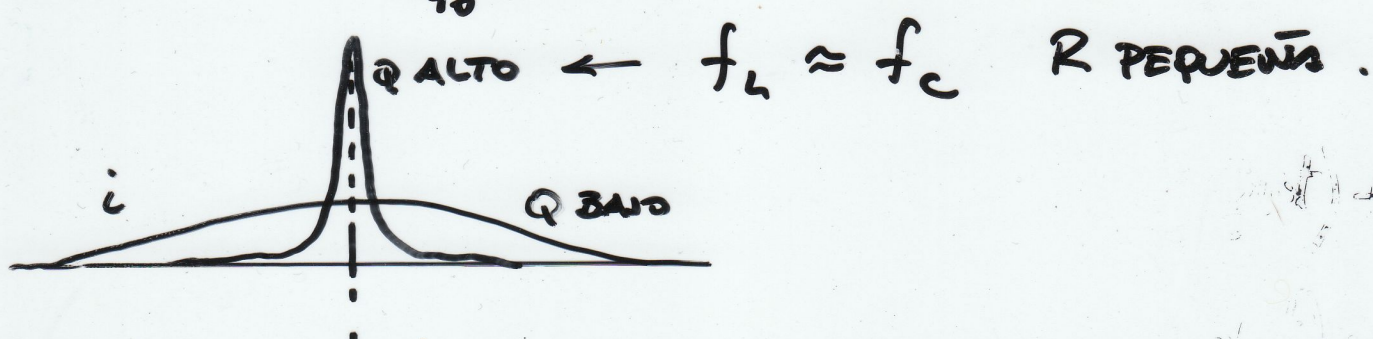
$Z = R + j(X_L - X_C)$  Si  $X_L = X_C \Rightarrow Z = R$  MINIMA Z  
CIRC. RESIST.

$X_L = X_C \Rightarrow \omega L = \frac{1}{\omega C} \Rightarrow f_0 = \frac{1}{2\pi} \sqrt{\frac{1}{LC}}$

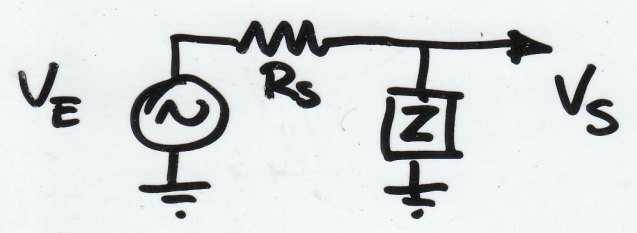
CONDICION DE RESONANCIA:  $f = f_0 \Rightarrow \Delta\phi = 0$



$f_L - f_C \rightarrow Q$   
 $Q = \frac{\omega_0 L}{R} = \frac{1}{R} \sqrt{\frac{L}{C}}$   
 FACTOR DE CALIDAD



EFFECTO DE LA RESISTENCIA INTERNA DE LA FUENTE O GENERADOR ( $\odot$ ) =  $R_S$



$V_S = \left( \frac{Z}{R_S + Z} \right) V_E < V_E$