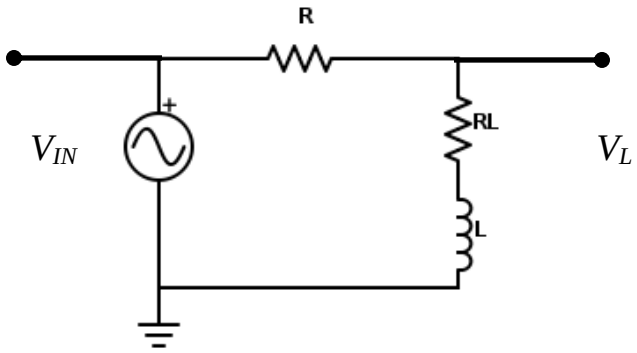


$$V_L = I * (R_L + j\omega L) \qquad R_T = R_L + R$$

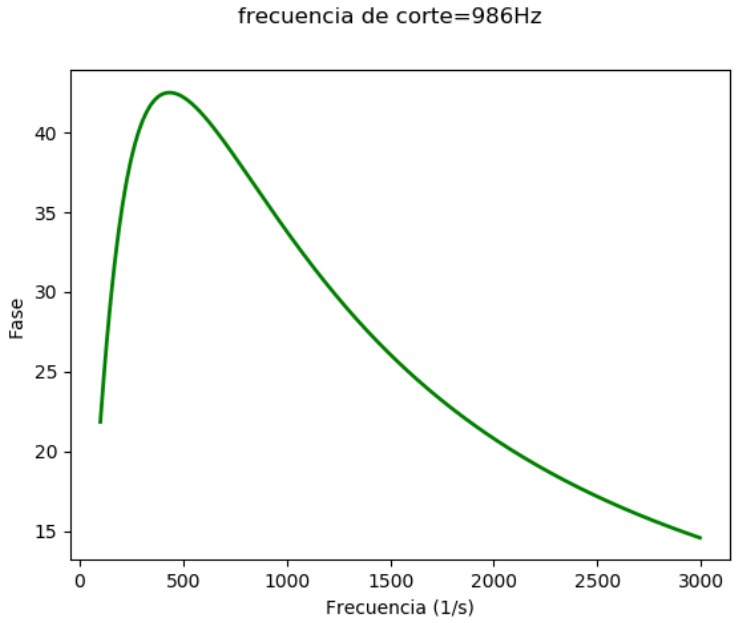
$$V_{IN} = I * (R_L + R + j\omega L)$$

$$\frac{V_L}{V_{IN}} = \frac{R_L + j\omega L}{R_L + R + j\omega L} = \frac{(R_L R_T + \omega^2 L^2) + j\omega LR}{R_T^2 + \omega^2 L^2}$$

$$T = \left|\frac{V_L}{V_{IN}}\right| = \frac{\sqrt{(R_L R_T + \omega^2 L^2)^2 + (\omega LR)^2}}{R_T^2 + \omega^2 L^2}$$

$$\varphi = arctag\left(\frac{\omega LR}{R_L R_T + \omega^2 L^2}\right)$$

Comportamiento de la fase:



R = 50 Ω

RL= 12 Ω

L=0.01 H