$$\omega = 600 \text{ find}$$

$$V = 1e^{j\omega t}$$

$$V = 1e^{j$$

$$I_{o} = \frac{1}{500 \left(36.87^{\circ} e^{j\omega t}\right)} I_{o} = \frac{1e^{j\omega t}}{R+j\omega l}$$

$$V_{L} = j\omega L \left[\frac{1e^{j\omega t}}{R+j\omega l}\right]$$

$$I_{o} = \frac{1}{100} I_{o} = \frac{1e^{j\omega t}}{R+j\omega l}$$

$$I_{o} = \frac{1e^{j\omega t}}{R+j\omega l}$$

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$$J = (2mA) e^{j(\omega t - tan^{-1} \frac{3}{4})}$$

$$V_{L} = \sqrt{1 \cdot \xi_{L}}$$

2.) $V_{L} = 6e^{j(\omega t + \frac{\pi}{2} - \tan^{-13}\lambda_{1})}$

3.)
$$\frac{V_{\text{out}}}{V_{\text{in}}} = H(j\omega) = j\omega L \left[\frac{V_{\text{out}}}{R+j\omega L}\right]$$

sinusodal Response

109,06

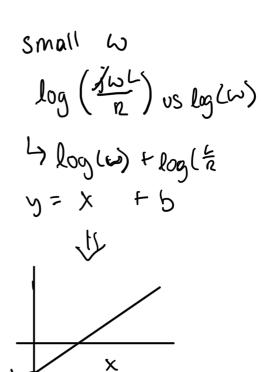
Response
$$H(j\omega) = \frac{j\omega L}{Rrj\omega L}$$
large

large ω Ly log(1) = 0

log(n (Hijw))

when $R = j\omega L$ $\omega_c L = R$ $\chi = R$

lets through high f filiters out low f



when λ_1 , λ_2 are

- · distinct & Real => overdamped
- · = & Real => critically damped
- · complex => underdamped