



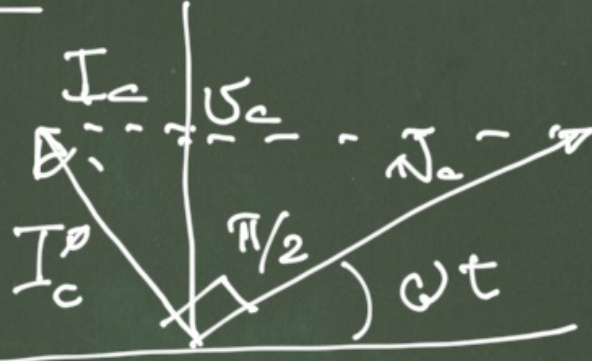
C puro $v_c = V_c \sin \omega_e t$ $q_c = C v_c$
 $= C V_c \sin \omega_e t$



$I_c = C V_c \omega_e \cos \omega_e t$


$I_c = C V_c \omega_e \sin(\omega_e t + \pi/2)$ ⑤

$\phi = -\frac{\pi}{2}$

$I_c^p = C V_c \omega_e = \frac{V_0}{X_c}$

$X_c = \frac{1}{\omega_e C}$ REACTANZA CAPACITIVA

L pure
 

$$V_L = \sqrt{V_L} \sin \omega_e t$$

$$= L \frac{dI_L}{dt}$$

$$\phi = \frac{\pi}{2}$$

$$I = \frac{\sqrt{V_L}}{L} \sin \omega_e t \rightarrow I = \frac{\sqrt{V_L}}{L} \int \sin \omega_e t$$

$$= \frac{\sqrt{V_L}}{\omega_e L} \cos \omega_e t = \frac{\sqrt{V_L}}{\omega_e L} \sin(\omega_e t - \pi/2)$$

$$= \frac{\sqrt{V_L}}{X_L} \sin(\omega_e t - \pi/2)$$

$$X_L = \omega_e L$$
