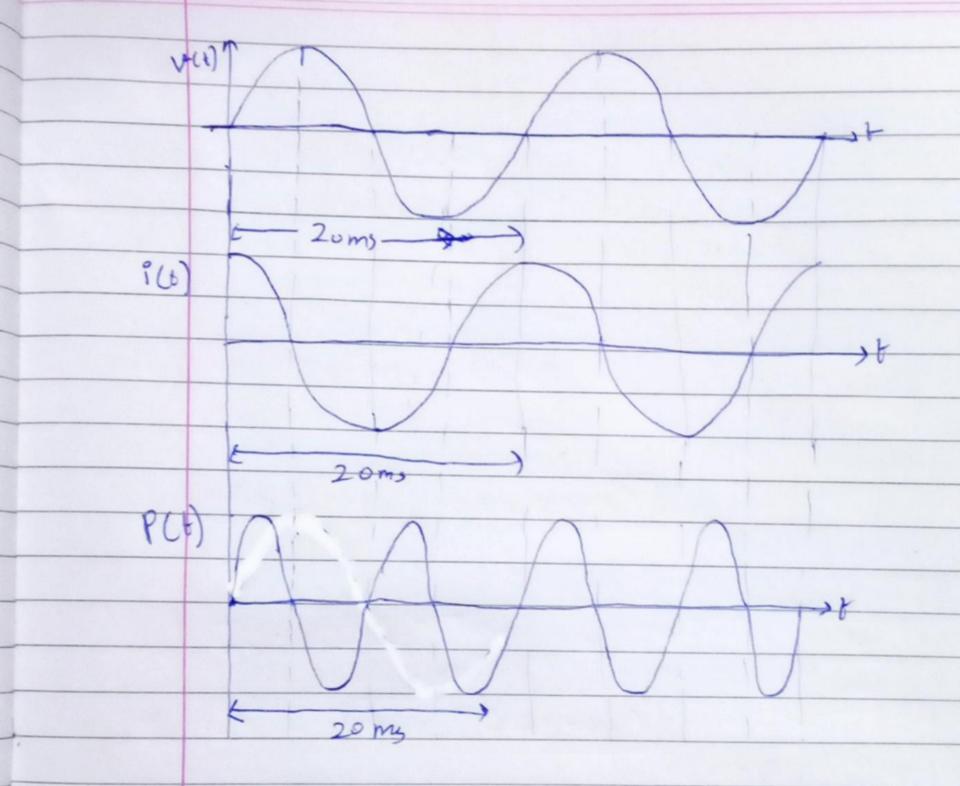
810 
$$o = i(t)$$
  
 $(i) + i(t) = I_m cos(2\pi (so) + t)$   
 $v(t) = -Ldi$   
 $dt$   
 $= + I_m s_i^s n (loo\pi + t) \times loo\pi$   
 $= v(t) = loo\pi I_m s_i^s n (loo\pi + t)$   
 $p(t) = loo\pi I_m^2 s_i^s n (loo\pi + t)$   
 $= v(t) = so\pi I_m^2 s_i^s n (loo\pi + t)$ 



(ii) 
$$t$$

i(t) = Im (OS (100 $\pi$ t +  $\phi$ )

with (I) = I (Im (OS (100 $\pi$ t +  $\phi$ )

$$t(t) = I \text{ Im } Sin(100\pi t + \phi)$$

$$100\pi($$

$$p(t) = Im^2 Sin(100\pi t + \phi) (OS(100\pi t + \phi))$$

$$100\pi($$

$$p(t) = Im^2 Sin(2(100\pi t + \phi))$$

$$200\pi($$

