

EE202 Homework 2

- (1) Find the steady state expression for  $i(t)$  in the circuit in Fig. 1 if  $v = 750 \cos(5000t)$  (mV).

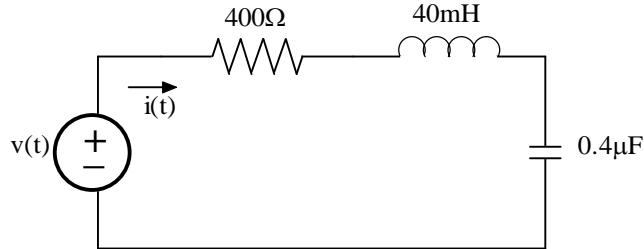


Fig.1

- (2) Find the steady state expression for  $v(t)$  in the circuit in Fig. 2 if  $i = 200 \cos(5000t)$  (mA).

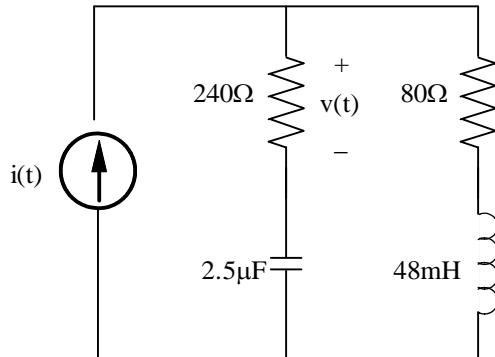


Fig.2

- (3) Find the Thevenin equivalent circuit with respect to the terminals a, b for the circuit in Fig. 3.

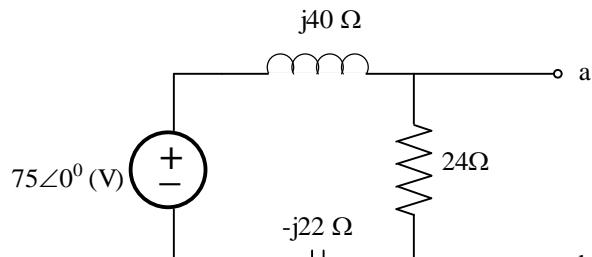


Fig.3