EE202 Homework 2

(1) Find the steady state expression for \( i(t) \) in the circuit in Fig. 1 if
\[ v = 750 \cos(5000t) \text{ (mV)} \].

![Fig.1](image1)

(2) Find the steady state expression for \( v(t) \) in the circuit in Fig. 2 if
\[ i = 200 \cos(5000t) \text{ (mA)} \].

![Fig.2](image2)

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

![Fig.3](image3)