ECET341 Homework 2

(1) Find the steady state expression for $i(t)$ in the circuit of Fig. 1 if
$v = 20\cos(1000t)$ (V).

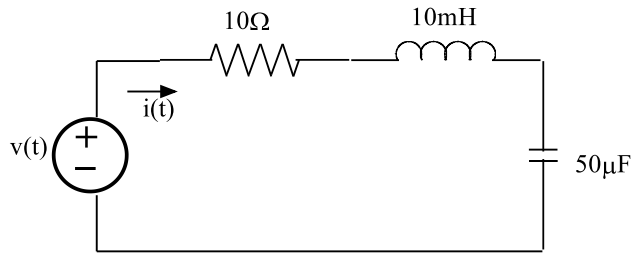
Fig.1

(2) Find the steady state expression for $v(t)$ in the circuit in Fig. 2 if
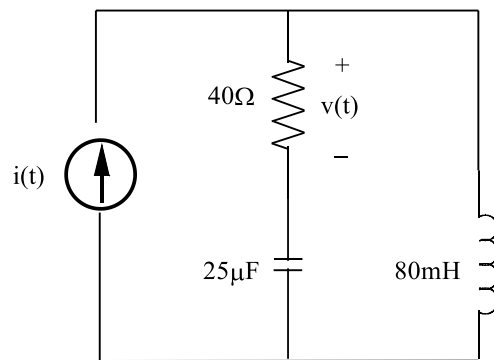$i = 10\cos(1000t)$ (A).

Fig.2

(3) Find the steady state expression for $i(t)$ in the circuit in Fig. 3 if
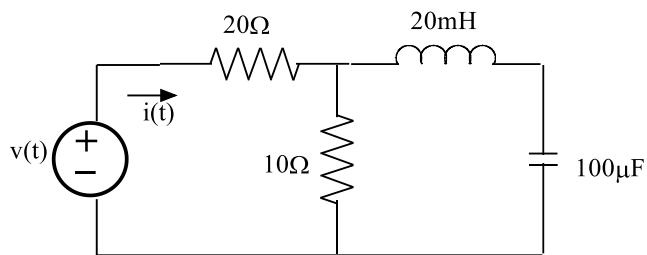$v(t) = 12\cos(1000t)$ (V).

Fig.3