Problem 1
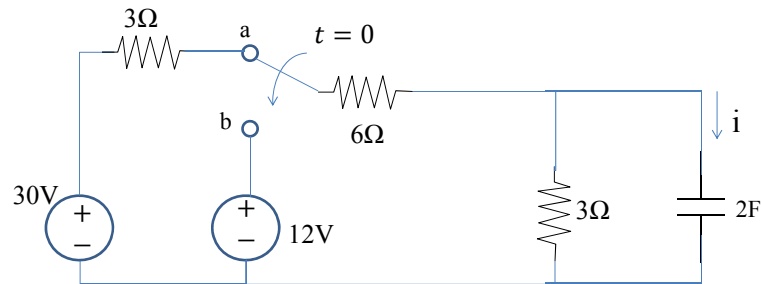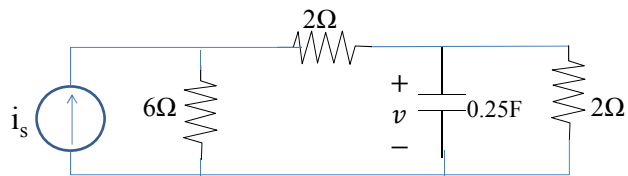
The switch in the circuit has been in position a for a long time. At t=0, it moves to position b. Calculate i(t) for all t > 0.

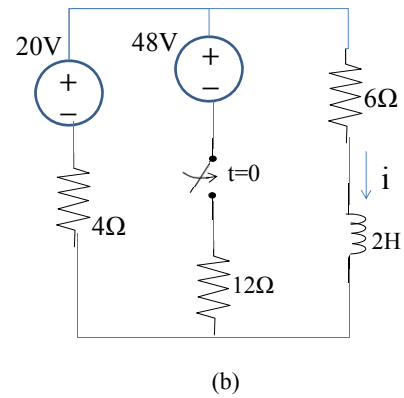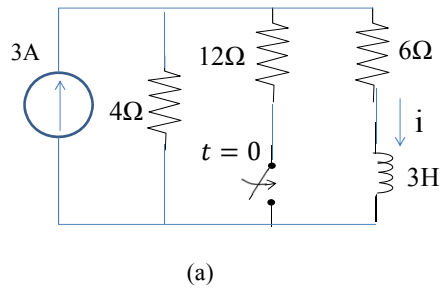## Problem 2
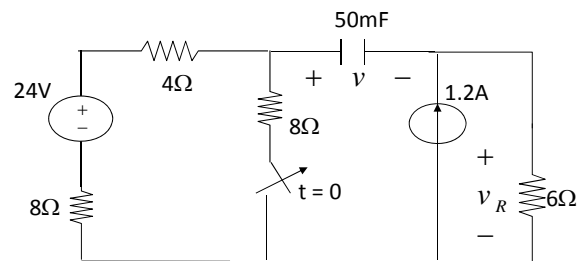
In the following circuit, $i_s(t) = 5u(t)$. Find v(t).

Problem 3

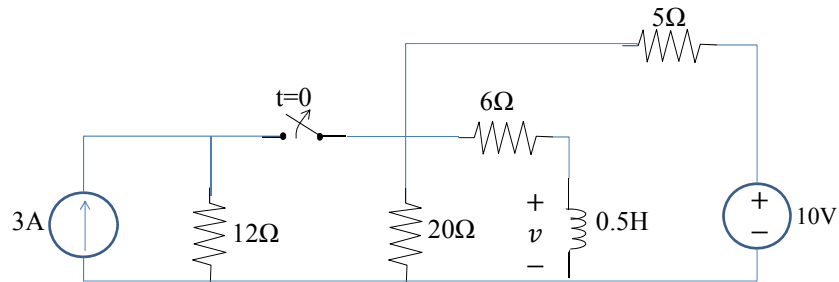Obtain the inductor current for both t<0 and t>0 in each of the circuits.

(a)

(b)

Problem 4

For t <0, the switch is closed. Assume that a steady state has been reached by t = 0. At t = 0, the switch is open. Find v (t), v_R(t) for t >0.
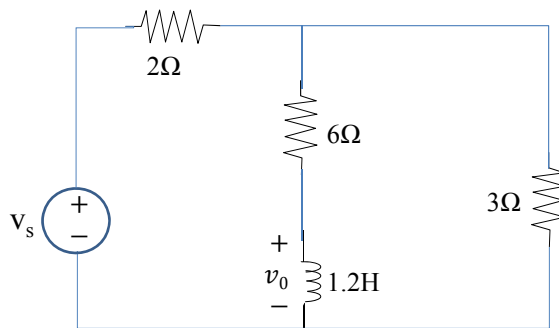
Problem 5

For the network shown in the following circuit. Find v(t) for t>0.

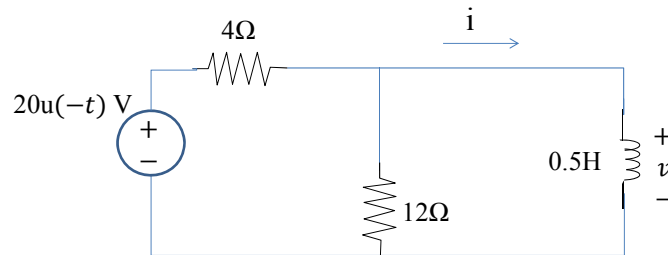## Problem 6

Determine the step response $v_0(t)$ to $v_s=9u(t)$ V in the following circuit.

Problem 7

Obtain v(t) and i(t) in the following circuit.

Problem 8

Find v_0(t) for t>0 in the following circuit.