**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 $t > 0$. 

$$i(1) = -1.363 \text{A}$$

**Problem 2**

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

$$v(1) = 5.507 \text{V}$$
Problem 3
Obtain the inductor current for both $t<0$ and $t>0$ in each of the circuits.

(a) $i(0.1)=1.148\,A$
(b) $i(0.1)=2.362\,A$

Problem 4
For the network shown in the following circuit. Find $v(t)$ for $t>0$.

$v(0.1)=-1.173\,V$
**Problem 5**

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

$$v(1)=0.013V$$

![Circuit Diagram for Problem 5](image)

**Problem 6**

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

$$v(1)=0.037V$$

![Circuit Diagram for Problem 6](image)
Problem 7

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

![Circuit Diagram]