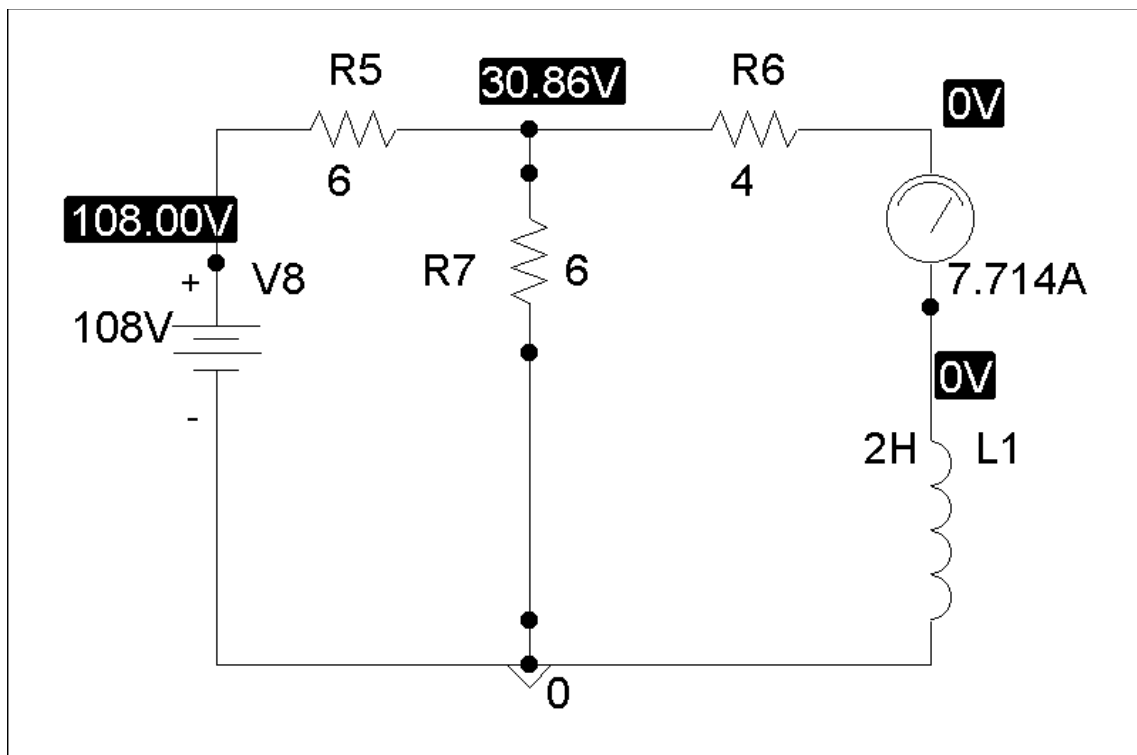


Chapter 7, Solution 78.

- (a) When the switch is in position (a), the schematic is shown below. We insert IPROBE to display i . After simulation, we obtain,

$$i(0) = 7.714 \text{ A}$$

from the display of IPROBE.



- (b) When the switch is in position (b), the schematic is as shown below. For inductor I1, we let $I_C = 7.714$. By clicking Analysis/Setup/Transient, we let Print Step = 25 ms and Final Step = 2 s. After Simulation, we click Trace/Add in the probe menu and display $I(L1)$ as shown below. Note that $i(\infty) = 12\text{A}$, which is correct.

