

CHAPTER 8 - SECOND-ORDER CIRCUITS

List of topics for this chapter :

Finding Initial Values
 The Source-Free Series RLC Circuit
 The Source-Free Parallel RLC Circuit
 Step Response of a Series RLC Circuit
 Step Response of a Parallel RLC Circuit
 General Second-Order Circuits
 Second-Order Op Amp Circuits

FINDING INITIAL VALUES

Problem 8.1 Given the circuit shown in Figure 8.1, which has existed for a long time, find $v_{C1}(0)$, $v_{C2}(0)$, $i_{L1}(0)$, and $i_{L2}(0)$.

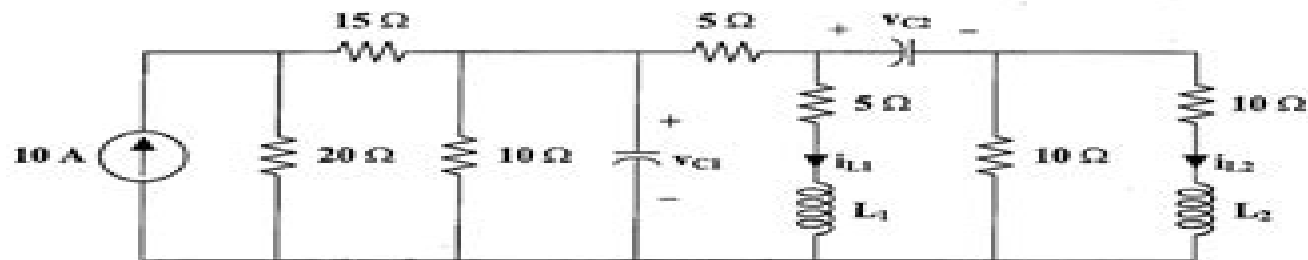
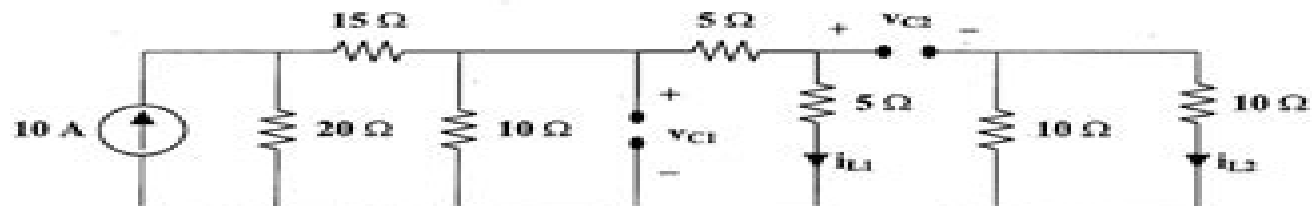


Figure 8.1

When a circuit reaches steady state, an inductor looks like a short circuit and a capacitor looks like an open circuit. So, use the following circuit to find the initial values.



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Matthew N.O. Sadiku



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