

ECE 2A Lab 2 Pre-Lab Questions

1. If there are two voltage sources in a circuit and we want to find the output due to each one acting alone, how do we “turn off” the one we’re not interested in?

- disconnect it completely from the circuit
- place a short across it
- replace it with a short

2. Draw arrows on the schematic below to define the currents in each branch and label them. Likewise, mark with a + and – the reference polarity of the voltage drops on the resistors and label them. Notice that the nodes in the schematic have been numbered. The voltage drop on R_1 , for example, could be labeled either V_{R1} or V_{1-2} .

