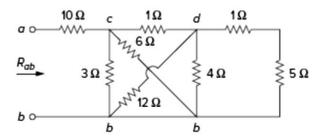
Tutorial-1

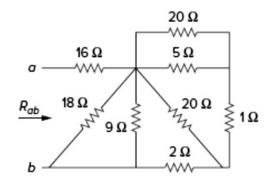
Date: 20.09.21

Electric Circuits & Systems

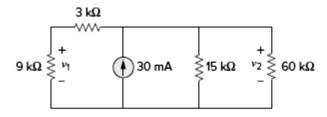
1. Find the equivalent resistance, R_{ab} for the following.



2. Find the equivalent resistance, R_{ab} for the following.



3. Find: (a) V_1 and V_2 as shown in figure, (b) the power dissipated in the 3-k Ω and 20-k Ω resistors, and (c) the total power supplied by the current source.



- 4. A voltage source of $20 \sin \pi t$ V is connected across a 5-k Ω resistor. Find the current through the resistor and the power dissipated.
- 5. An energy source forces a constant current of 2 A for 10 s to flow through a light bulb. If 2.3 KJ is given off in the form of light and heat energy, calculate the voltage drop across the bulb.