

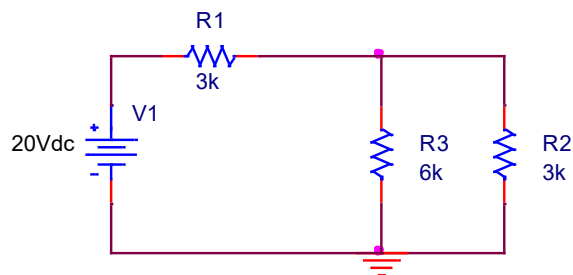
EXPERIMENT 7

PSPICE SIMULATION 1: BASICS OF PSPICE

OBJECTIVE: The object of the experiment is to learn the basics of PSPICE. Measuring current, voltage, power and resistance using PSPICE

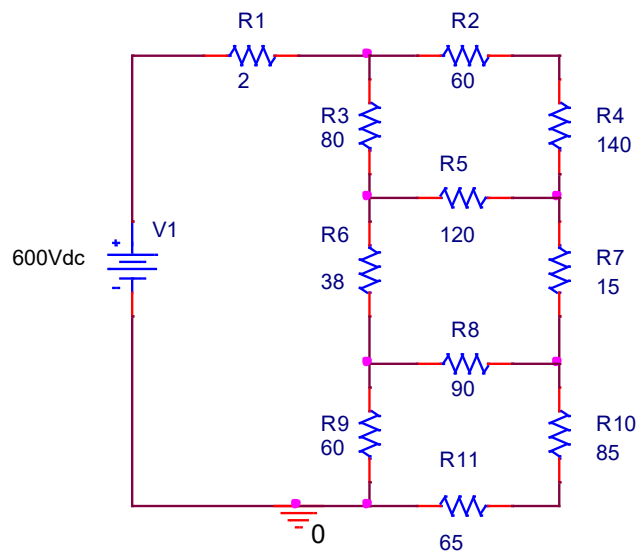
PRELIMINARY WORK

P1 Find voltage, current and power of all resistors using PSpice. Verify the conservation of power. Comment on the results



	R1	R2	R3
V			
I			
P			

P2 Find voltage, current and power of all resistors using PSpice. Verify the conservation of power

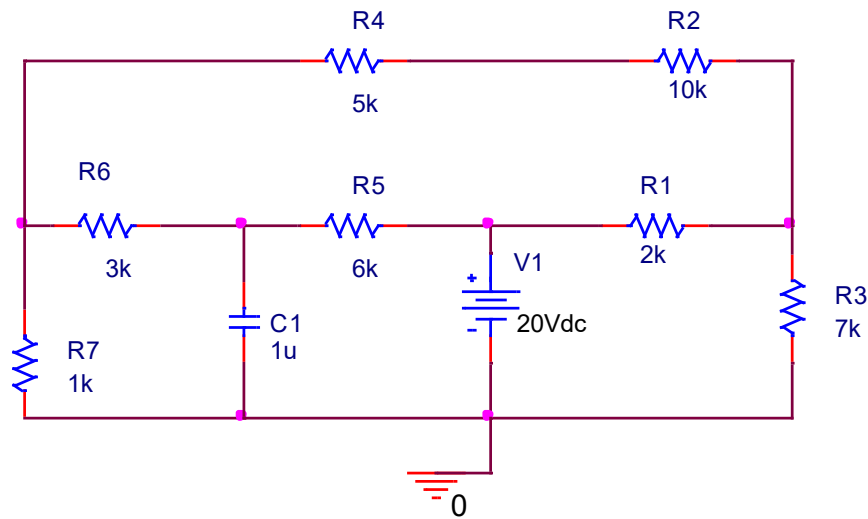
[illegible]

P3 Using PSPICE obtain the I-V characteristics of

- a) $10\text{ k}\Omega$
- b) $40\text{ k}\Omega$
- c) Series combination of $10\text{ k}\Omega$ and $40\text{ k}\Omega$
- d) Parallel combination of $10\text{ k}\Omega$ and $40\text{ k}\Omega$

EXPERIMENTAL WORK

E1 Plot the Capacitor Voltage versus time. Initial condition on Capacitor is 3V



E2 Initial Current on the inductor is 2mA. Plot the inductor current versus time.

