

E-V.1 DIRECT CURRENT ELECTRIC CIRCUITS - Lab Turn In Sheet

Part I - Circuit Elements In Series

TABLE I	<u>Location of Ammeter</u>	<u>Current (mA)</u>
	Between A & B	_____
	Between C & D	_____
	Between E & F	_____
	Between G & H	_____

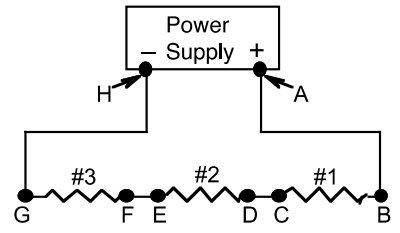


Figure 1

Q-1 _____

Q-2 _____ **Q-4** _____

Q-3 _____ **Q-5** _____

TABLE II.	<u>Location of voltmeter</u>	<u>PD (Volts)</u>
	Across bulb #1	_____
	Across bulb #2	_____
	Across bulb #3	_____
	Across the Power Supply	_____

I-1 _____ **I-4** _____ **I-7** _____

I-2 _____ **I-5** _____ **I-8** _____

I-3 _____ **I-6** _____ **I-9** _____

I-10 _____, _____, _____

Q-6 _____ **Q-7** _____

Q-8 _____

I-11 _____ **I-12** _____ **I-13** _____

Q-9 _____

Power Calculations Part I

i. $P_s = (\quad) (\quad) = \quad$

ii. $P_1 = (\quad) (\quad) = \quad$

iii. $P_2 = (\quad) (\quad) = \quad$

iv. $P_3 = (\quad) (\quad) = \quad$

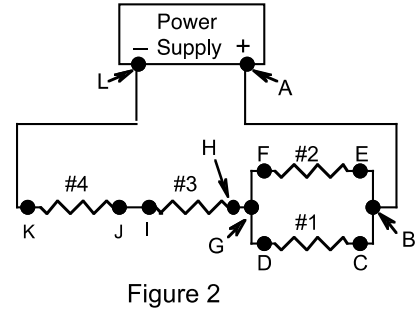
v. $P_1 + P_2 + P_3 = \quad$

Q-10 _____

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PART II - Circuit Elements In Parallel

TABLE III	<u>Location of Ammeter</u>	<u>Current (mA)</u>
	Between A & B	_____
	Between B & C	_____
	Between B & E	_____
	Between G & H	_____
	Between I & J	_____
	Between K & L	_____



Q-11 _____

TABLE IV.	<u>Location of voltmeter</u>	<u>PD (Volts)</u>
	Across bulb #1	_____
	Across bulb #2	_____
	Across bulb #3	_____
	Across bulb #4	_____
	Across the Power Supply	_____

Q-12 _____

II-1 _____ II-3 _____ II-5 _____

II-2 _____ II-4 _____

II-6 PE increases = _____ PE decreases = _____

II-7 PE increases = _____ PE decreases = _____

Q-13 _____

Q-14 _____

Q-15 _____

Q-16 _____

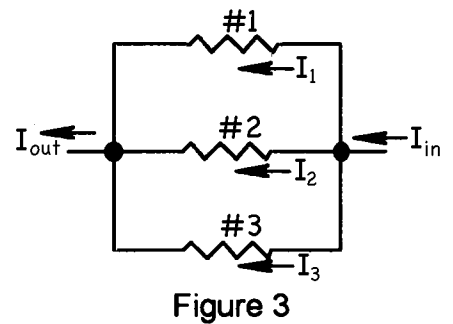


Figure 3

E-V.1 DIRECT CURRENT ELECTRIC CIRCUITS - Lab Turn In Sheet**Part II - POWER IN PARALLEL CIRCUITS**

i. $P_s = (\text{_____})(\text{_____}) = \text{_____}$

ii. $P_1 = (\text{_____})(\text{_____}) = \text{_____}$

iii. $P_2 = (\text{_____})(\text{_____}) = \text{_____}$

iv. $P_3 = (\text{_____})(\text{_____}) = \text{_____}$

v. $P_4 = (\text{_____})(\text{_____}) = \text{_____}$

vi. $P_1 + P_2 + P_3 + P_4 = \text{_____}$

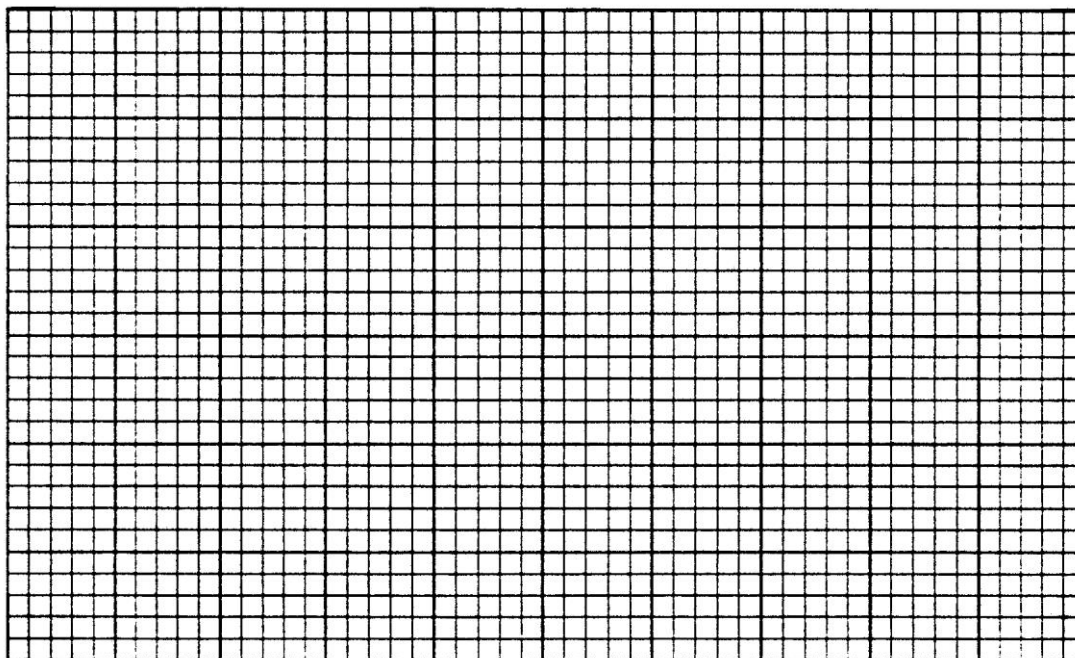
Q-17 _____

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PART III - Ohm's Law

TABLE V.	PD Across R in volts	Current Through R in mA	Current Through R in amps
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____
	_____	_____	_____

Voltage versus Current graph:



III-1 $V_{\text{across } R}$ UJ _____

Q-18 $R =$ _____

III-2 R of bulb #1 in Part I = (_____) - (_____) = _____

III-3 R of bulb #1 in Part II = (_____) - (_____) = _____

III-4 R of bulb #2 in Part II = (_____) - (_____) = _____