

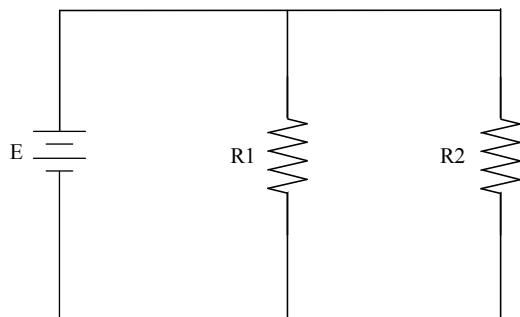
Parallel Circuit Worksheet #1

Meets ASE Task: (A6-A-2) P-1 Diagnose electrical/electronic integrity for series, parallel, and series-parallel circuits using principles of electricity (Ohm's Law).

Name _____ Date _____ Time on Task _____

Make/Model/Year _____ VIN _____ Evaluation: 4 3 2 1

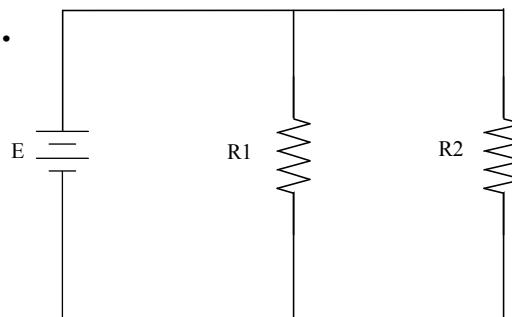
1.



$$E = 12 \text{ volts} \quad R1 = 4 \text{ ohms}$$

$$I_T = \underline{\hspace{2cm}} \quad R2 = 4 \text{ ohms}$$

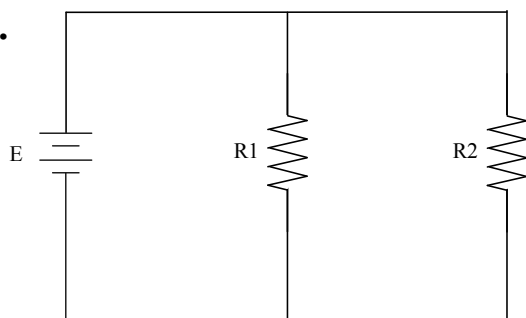
2.



$$E = 12 \text{ volts} \quad R1 = 6 \text{ ohms}$$

$$I_T = 4 \text{ amperes} \quad R2 = \underline{\hspace{2cm}}$$

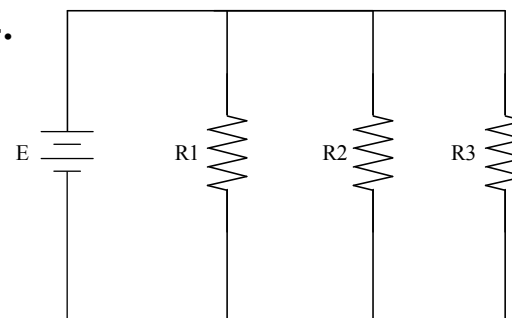
3.



$$E = 12 \text{ volts} \quad R1 = 12 \text{ ohms}$$

$$I_T = \underline{\hspace{2cm}} \quad R2 = 12 \text{ ohms}$$

4.

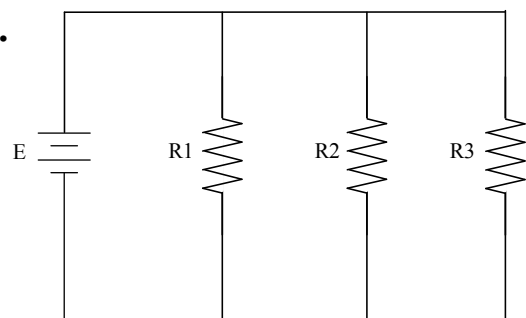


$$E = 12 \text{ volts} \quad R2 = 4 \text{ ohms}$$

$$I_T = \underline{\hspace{2cm}} \quad R3 = 2 \text{ ohms}$$

$$R1 = 4 \text{ ohms}$$

5.

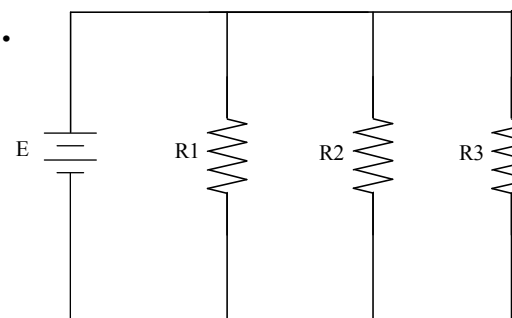


$$E = \underline{\hspace{2cm}} \quad R2 = 4 \text{ ohms}$$

$$I_T = 12 \text{ amperes} \quad R3 = 4 \text{ ohms}$$

$$R1 = 2 \text{ ohms}$$

6.



$$E = 12 \text{ volts} \quad R2 = \underline{\hspace{2cm}}$$

$$I_T = 12 \text{ amperes} \quad R3 = 2 \text{ ohms}$$

$$R1 = 4 \text{ ohms}$$