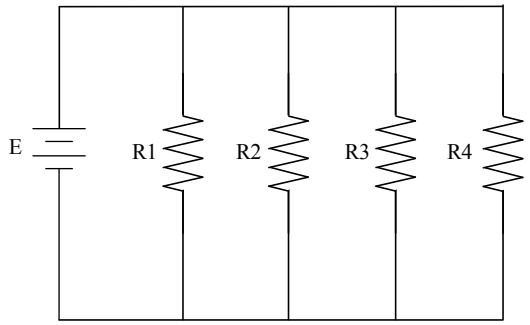
Parallel Circuit Worksheet #2

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**

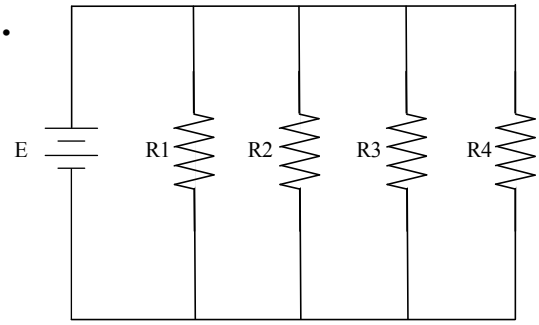
1.



E = 12 volts
I_T = _____
R1 = 4 ohms

R1 = 4 ohms
R2 = 12 ohms
R4 = 12 ohms

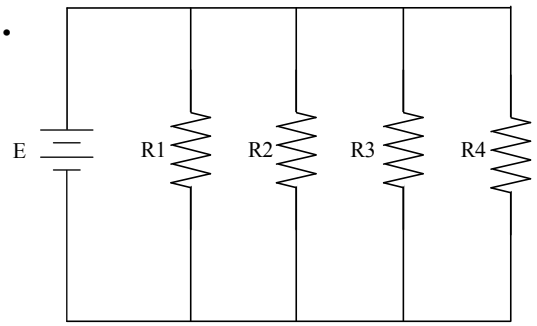
2.



E = _____
I_T = 4 amperes
R1 = 12 ohms

R1 = 12 ohms
R2 = 12 ohms
R3 = 12 ohms

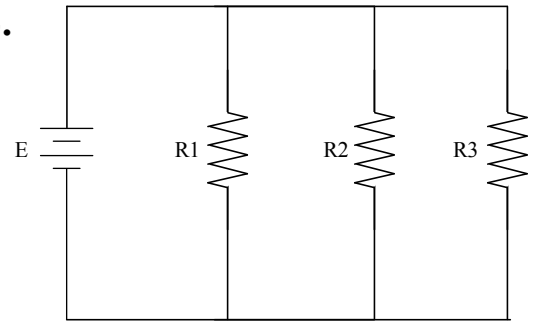
3.



E = _____
I_T = 1 ampere
R1 = 2 ohms

R2 = 4 ohms
R3 = 6 ohms
R4 = 12 ohms

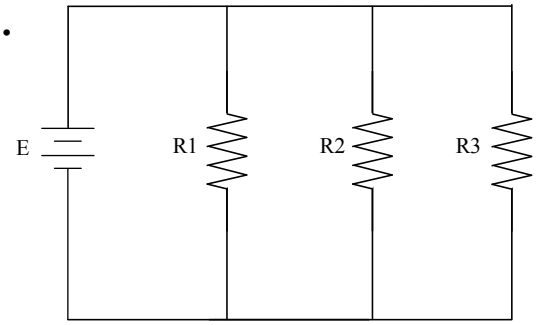
4.



E = 12 volts
I_T = _____
R1 = 8 ohms

R2 = 8 ohms
R3 = 4 ohms

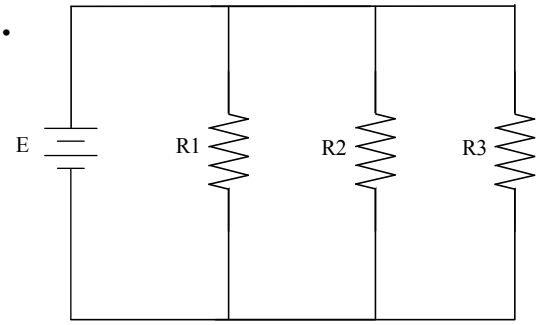
5.



E = 12 volts
I_T = 4 amperes
R1 = 12 ohms

R2 = 12 ohms
R3 = _____

6.



E = _____
I_T = 2 amperes
R1 = 24 ohms

R2 = 24 ohms
R3 = 12 ohms