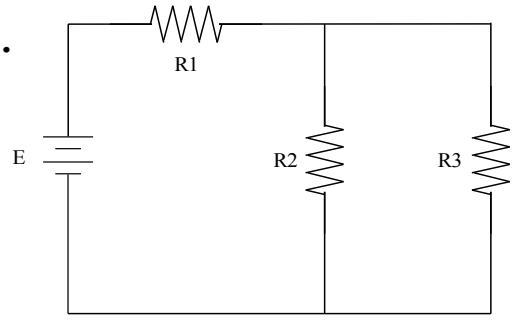
Series-Parallel Circuit Worksheet #1

Meets NATEF Task: (A6-A-2) Diagnose Electrical/Electronic Integrity for Series, Parallel, and Series-Parallel Circuits Using Principles of Electricity (Ohm's Law). (P-1)

Name _____ **Date** _____ **Time on Task** _____

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

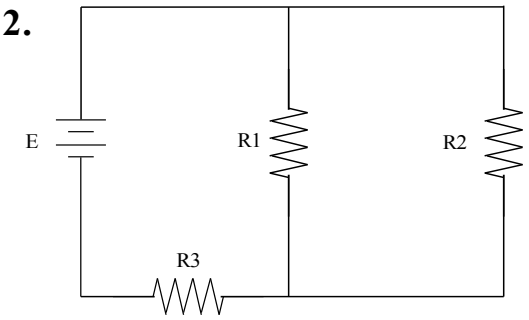
1.



E = 12 volts
I_T = 3 amperes
R1 = _____

R2 = 4 ohms
R3 = 4 ohms

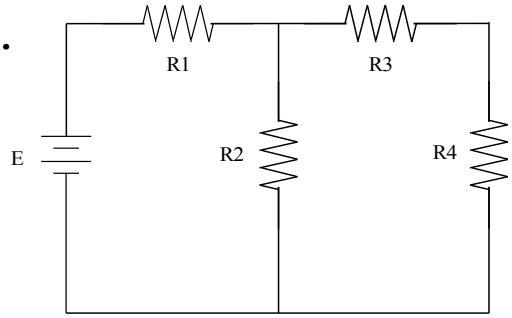
2.



E = 12 volts
I_T = 3 amperes
R1 = 4 ohms

R2 = 4 ohms
R3 = _____

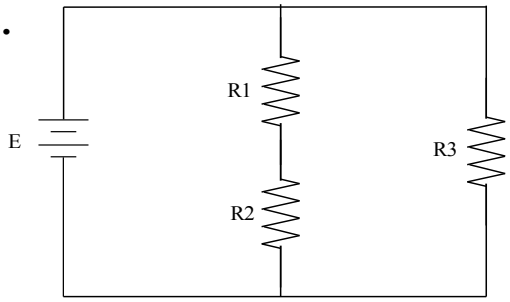
3.



E = 12 volts
I_T = _____
R1 = 2 ohms

R2 = 4 ohms
R3 = 2 ohms
R4 = 2 ohms

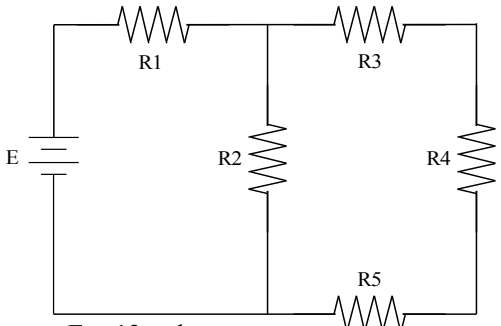
4.



E = _____
I_T = 3 amperes
R1 = 4 ohms

R2 = 4 ohms
R3 = 8 ohms

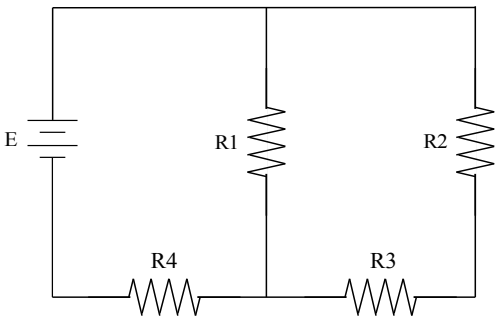
5.



E = 12 volts
I_T = _____
R1 = 2 ohms
R2 = 8 ohms

R3 = 2 ohms
R4 = 4 ohms
R5 = 2 ohms

6.



E = 12 volts
I_T = _____
R1 = 12 ohms

R2 = 6 ohms
R3 = 6 ohms
R4 = 2 ohms