

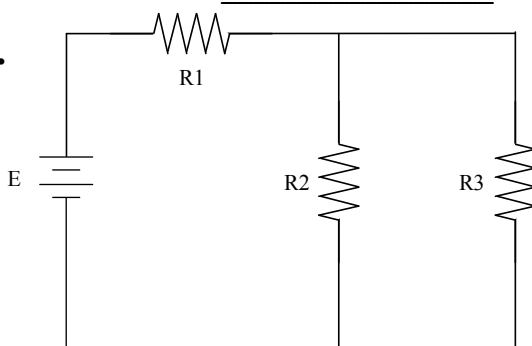
## Series-Parallel Circuit Worksheet #1

**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 \_\_\_\_\_

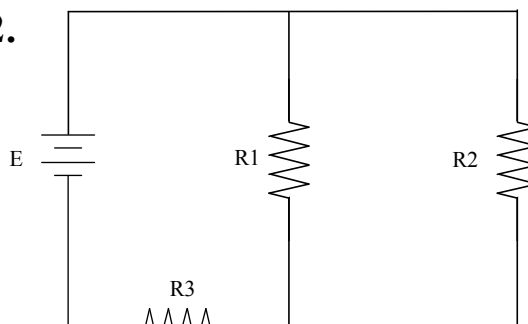
Make/Model/Year \_\_\_\_\_ VIN \_\_\_\_\_ Evaluation: 4 3 2 1

1.



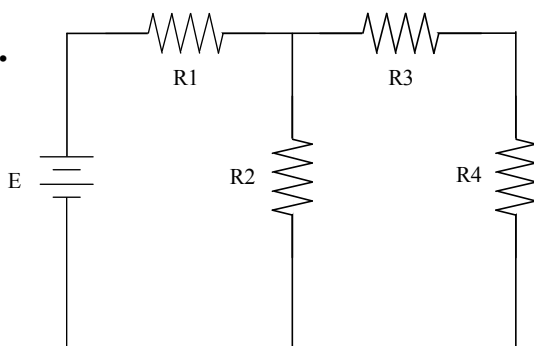
$E = 12 \text{ volts}$        $R2 = 4 \text{ ohms}$   
 $I_T = 3 \text{ amperes}$      $R3 = 4 \text{ ohms}$   
 $R1 = \underline{\hspace{2cm}}$

2.



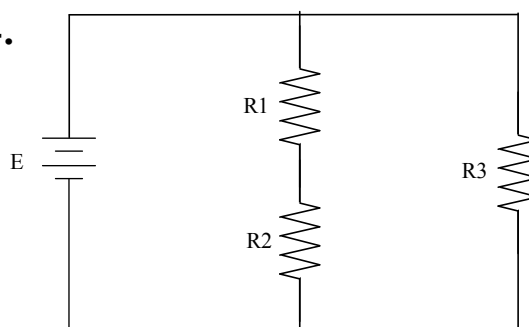
$E = 12 \text{ volts}$        $R2 = 4 \text{ ohms}$   
 $I_T = 3 \text{ amperes}$      $R3 = \underline{\hspace{2cm}}$   
 $R1 = 4 \text{ ohms}$

3.



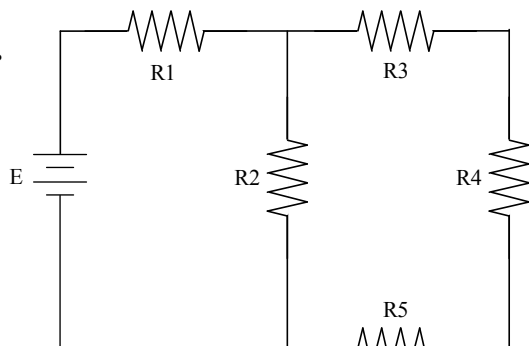
$E = 12 \text{ volts}$        $R2 = 4 \text{ ohms}$   
 $I_T = \underline{\hspace{2cm}}$        $R3 = 2 \text{ ohms}$   
 $R1 = 2 \text{ ohms}$        $R4 = 2 \text{ ohms}$

4.



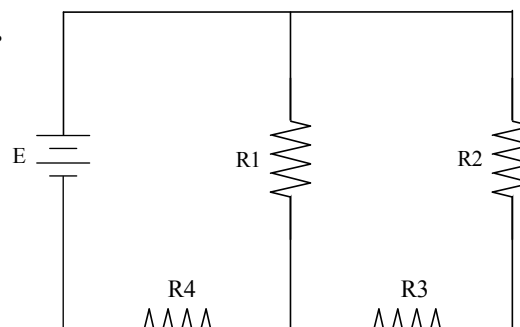
$E = \underline{\hspace{2cm}}$        $R2 = 4 \text{ ohms}$   
 $I_T = 3 \text{ amperes}$      $R3 = 8 \text{ ohms}$   
 $R1 = 4 \text{ ohms}$

5.



$E = 12 \text{ volts}$        $R3 = 2 \text{ ohms}$   
 $I_T = \underline{\hspace{2cm}}$        $R4 = 4 \text{ ohms}$   
 $R1 = 2 \text{ ohms}$        $R5 = 2 \text{ ohms}$   
 $R2 = 8 \text{ ohms}$

6.



$E = 12 \text{ volts}$        $R2 = 6 \text{ ohms}$   
 $I_T = \underline{\hspace{2cm}}$        $R3 = 6 \text{ ohms}$   
 $R1 = 12 \text{ ohms}$      $R4 = 2 \text{ ohms}$