

Series Circuit Task Sheet #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 _____ Evaluation: 4 3 2 1

1.



$$E = 12 \text{ volts}$$

$$I_T = 3 \text{ amperes}$$

$$R_T = \underline{\hspace{2cm}}$$

2.

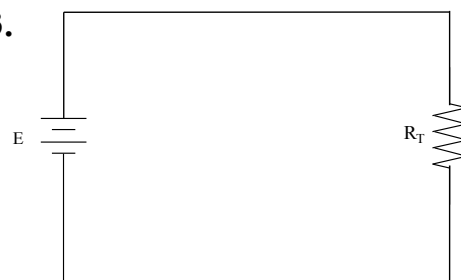


$$E = 12 \text{ volts}$$

$$I_T = \underline{\hspace{2cm}}$$

$$R_T = 3 \text{ ohms}$$

3.

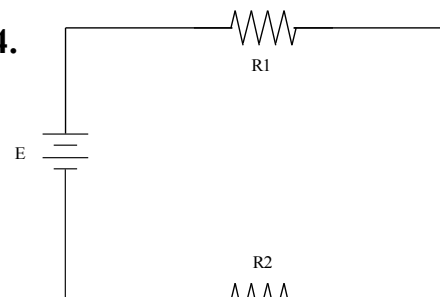


$$E = \underline{\hspace{2cm}}$$

$$I_T = 3 \text{ amperes}$$

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

4.



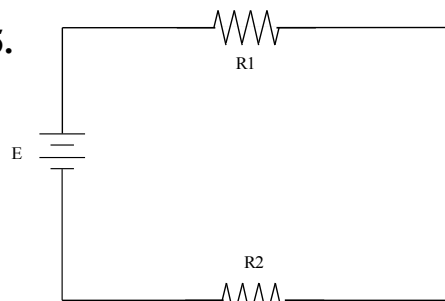
$$E = 12 \text{ volts}$$

$$I_T = \underline{\hspace{2cm}}$$

$$R_1 = 1 \text{ ohm}$$

$$R_2 = 1 \text{ ohm}$$

5.



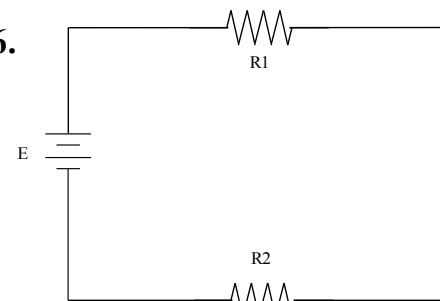
$$E = \underline{\hspace{2cm}}$$

$$I_T = 2 \text{ amperes}$$

$$R_1 = 3 \text{ ohms}$$

$$R_2 = 3 \text{ ohms}$$

6.



$$E = 12 \text{ volts}$$

$$I_T = 3 \text{ amperes}$$

$$R_1 = 3 \text{ ohms}$$

$$R_2 = \underline{\hspace{2cm}}$$