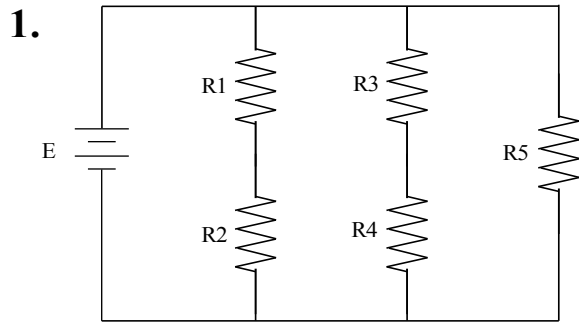


Name _____ Date _____ Time on Task _____

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

Series-Parallel Circuit Worksheet #2

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



$$E = 24 \text{ volts}$$

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

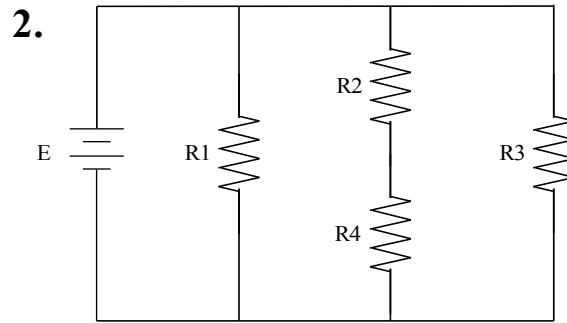
$$R1 = 6 \text{ ohms}$$

$$R2 = 6 \text{ ohms}$$

$$R3 = 6 \text{ ohms}$$

$$R4 = 6 \text{ ohms}$$

$$R5 = 6 \text{ ohms}$$



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

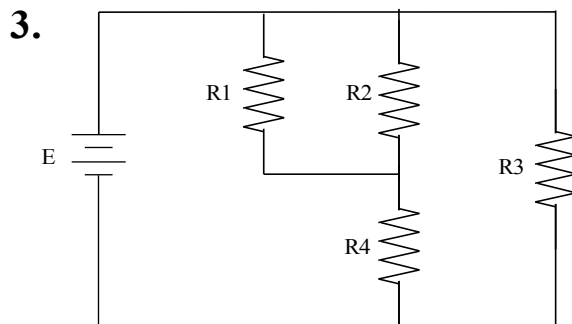
$$I_T = 12 \text{ amperes}$$

$$R1 = 8 \text{ ohms}$$

$$R2 = 4 \text{ ohms}$$

$$R3 = 4 \text{ ohms}$$

$$R4 = 4 \text{ ohms}$$



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

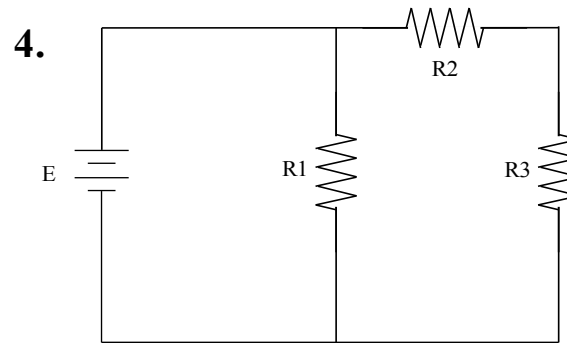
$$I_T = \underline{\hspace{2cm}}$$

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

$$R2 = 4 \text{ ohms}$$

$$R3 = 4 \text{ ohms}$$

$$R4 = 2 \text{ ohms}$$



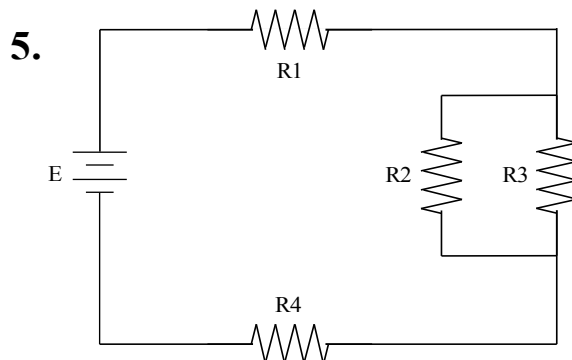
$$E = \underline{\hspace{2cm}}$$

$$I_T = 6 \text{ amperes}$$

$$R1 = 8 \text{ ohms}$$

$$R2 = 4 \text{ ohms}$$

$$R3 = 4 \text{ ohms}$$



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

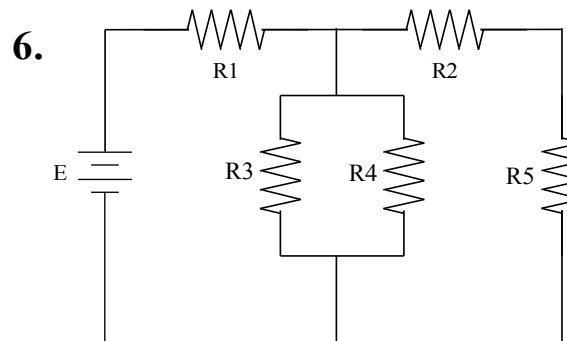
$$I_T = \underline{\hspace{2cm}}$$

$$R1 = 1 \text{ ohm}$$

$$R2 = 2 \text{ ohms}$$

$$R3 = 2 \text{ ohms}$$

$$R4 = 1 \text{ ohm}$$



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

$$I_T = 4 \text{ amperes}$$

$$R1 = \underline{\hspace{2cm}}$$

$$R2 = 4 \text{ ohms}$$

$$R3 = 4 \text{ ohms}$$

$$R4 = 8 \text{ ohms}$$

$$R5 = 4 \text{ ohms}$$