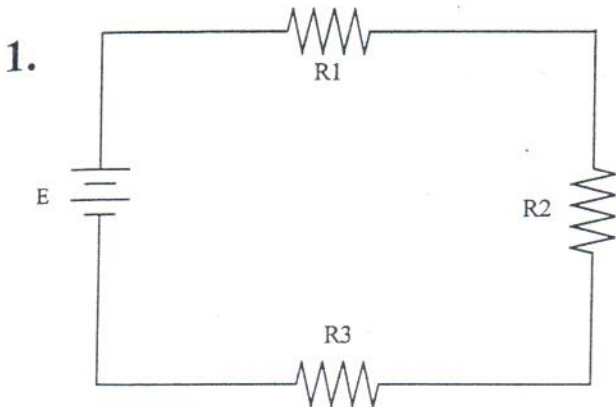
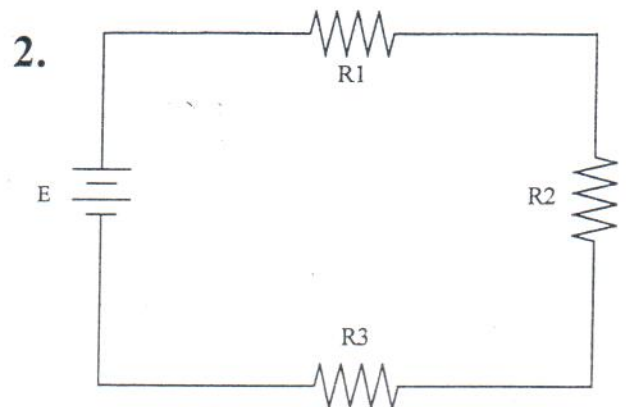


Series Circuit Worksheet #2

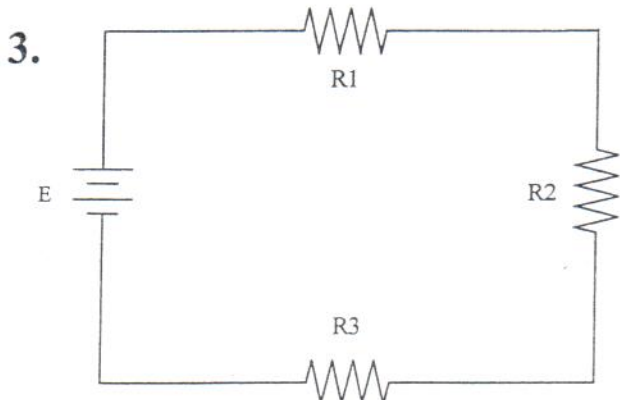
Meets NATEF Task: (A6-A-4) Diagnose Electrical/Electronic Integrity for Series, Parallel, and Series-Parallel Circuits Using Principles of Electricity (Ohm's Law).



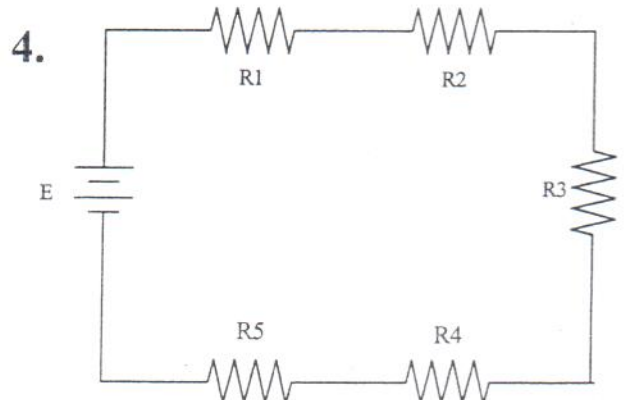
$E = \underline{\hspace{2cm}}$ $R2 = 1 \text{ ohm}$
 $I_T = 8 \text{ amperes}$ $R3 = 1 \text{ ohm}$
 $R1 = 1 \text{ ohm}$



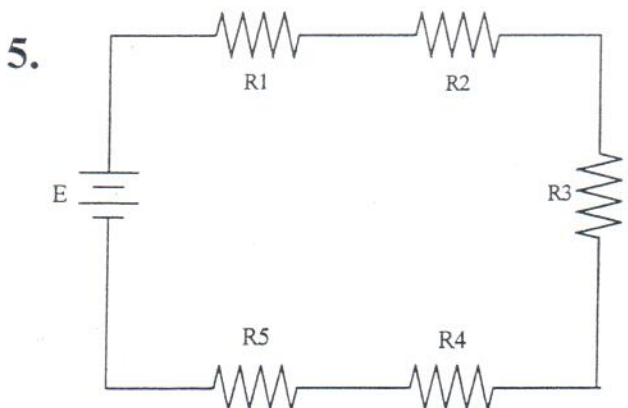
$E = 24 \text{ volts}$ $R2 = 2 \text{ ohms}$
 $I_T = \underline{\hspace{2cm}}$ $R3 = 2 \text{ ohms}$
 $R1 = 2 \text{ ohms}$



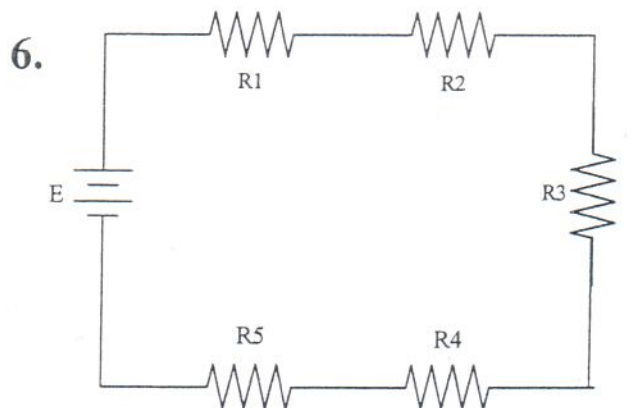
$E = 24 \text{ volts}$ $R2 = 1 \text{ ohm}$
 $I_T = 4 \text{ amperes}$ $R3 = \underline{\hspace{2cm}}$
 $R1 = 3 \text{ ohms}$



$E = 12 \text{ volts}$ $R2 = \underline{\hspace{2cm}}$ $R5 = 1 \text{ ohm}$
 $I_T = 2 \text{ amperes}$ $R3 = 2 \text{ ohms}$
 $R1 = 1 \text{ ohm}$ $R4 = 1 \text{ ohm}$



$E = 24 \text{ volts}$ $R2 = 4 \text{ ohms}$ $R5 = 1 \text{ ohm}$
 $I_T = 2 \text{ amperes}$ $R3 = \underline{\hspace{2cm}}$
 $R1 = 2 \text{ ohms}$ $R4 = 1 \text{ ohm}$



$E = \underline{\hspace{2cm}}$ $R2 = 1 \text{ ohm}$ $R5 = 2 \text{ ohms}$
 $I_T = 3 \text{ amperes}$ $R3 = 2 \text{ ohms}$
 $R1 = 2 \text{ ohms}$ $R4 = 1 \text{ ohm}$