

Parallel Example 2

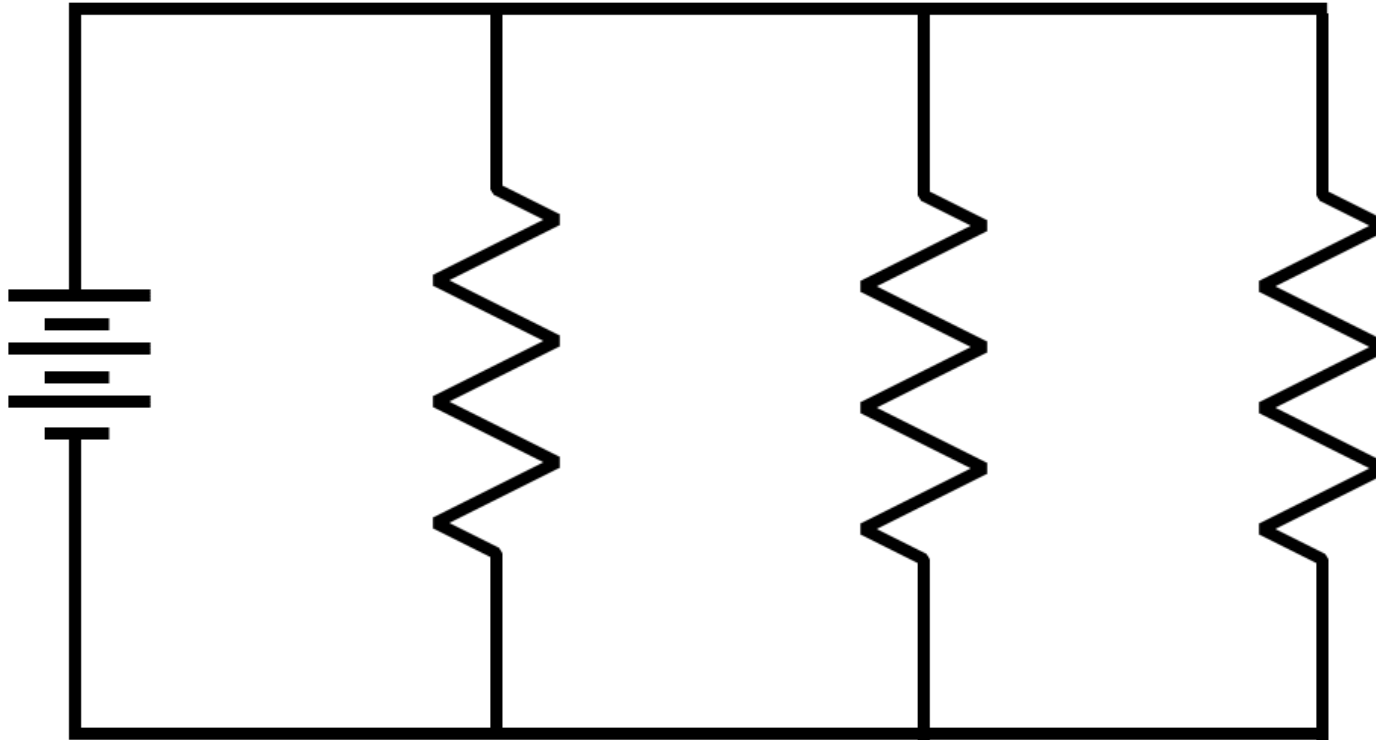
Math

$$\begin{aligned} P_1 &= \\ E_1 &= 12.6 \text{ Volts} \\ I_1 &= \\ R_1 &= 6.4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_2 &= \\ E_2 &= \\ I_2 &= \\ R_2 &= 4 \text{ Ohms} \end{aligned}$$

Rule

$$\begin{aligned} P_T &= \\ E_T &= \\ I_T &= \\ R_T &= \end{aligned}$$



$$\begin{aligned} P_3 &= \\ E_3 &= \\ I_3 &= \\ R_3 &= 16 \text{ Ohms} \end{aligned}$$

$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$$P_1 = 24.80625 \text{ Watts}$$

$$E_1 = 12.6 \text{ Volts}$$

$$I_1 = 1.96875 \text{ Amps}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$P_2 =$$

$$E_2 =$$

$$I_2 =$$

$$R_2 = 4 \text{ Ohms}$$

$$P_T =$$

$$E_T =$$

$$I_T =$$

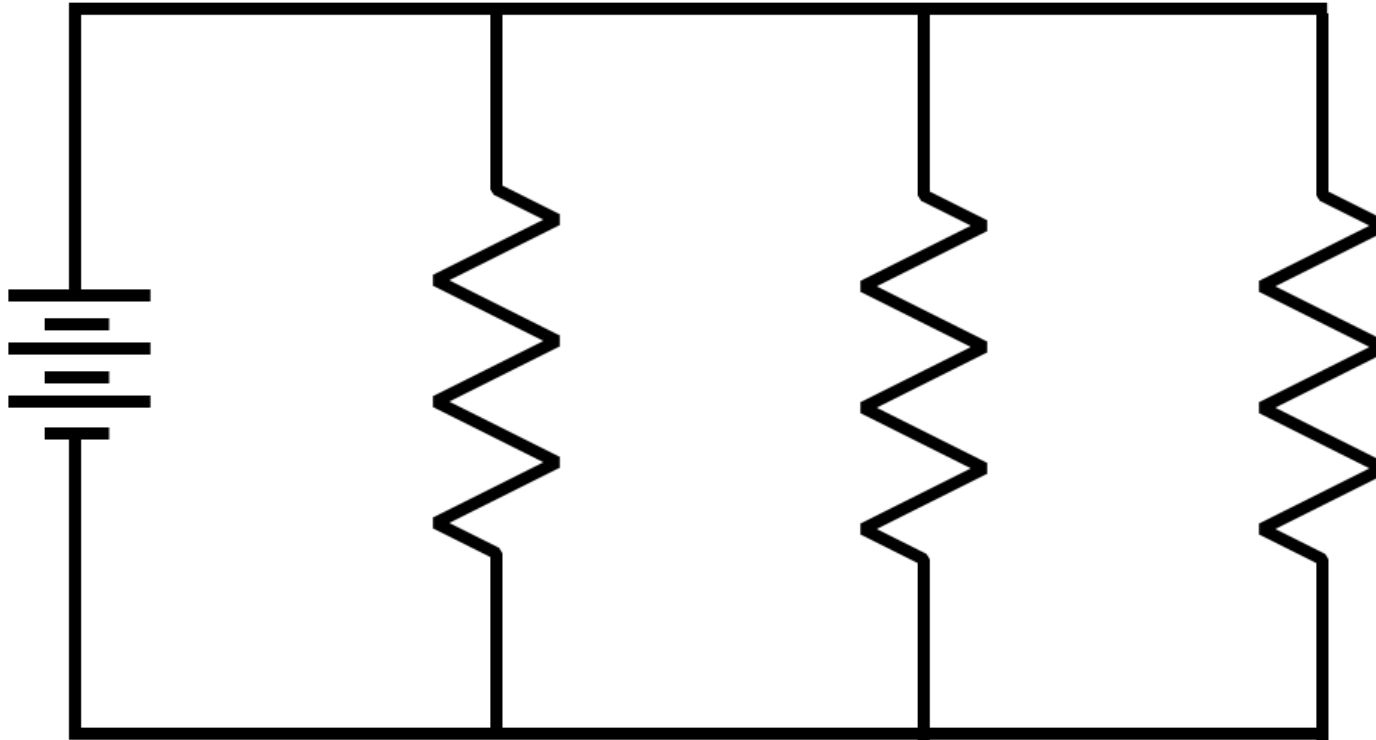
$$R_T =$$

$$P_3 =$$

$$E_3 =$$

$$I_3 =$$

$$R_3 = 16 \text{ Ohms}$$



$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$$P_1 = 24.80625 \text{ Watts}$$

$$E_1 = 12.6 \text{ Volts}$$

$$I_1 = 1.96875 \text{ Amps}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$P_2 =$$

$$E_2 = 12.6 \text{ Volts}$$

$$I_2 =$$

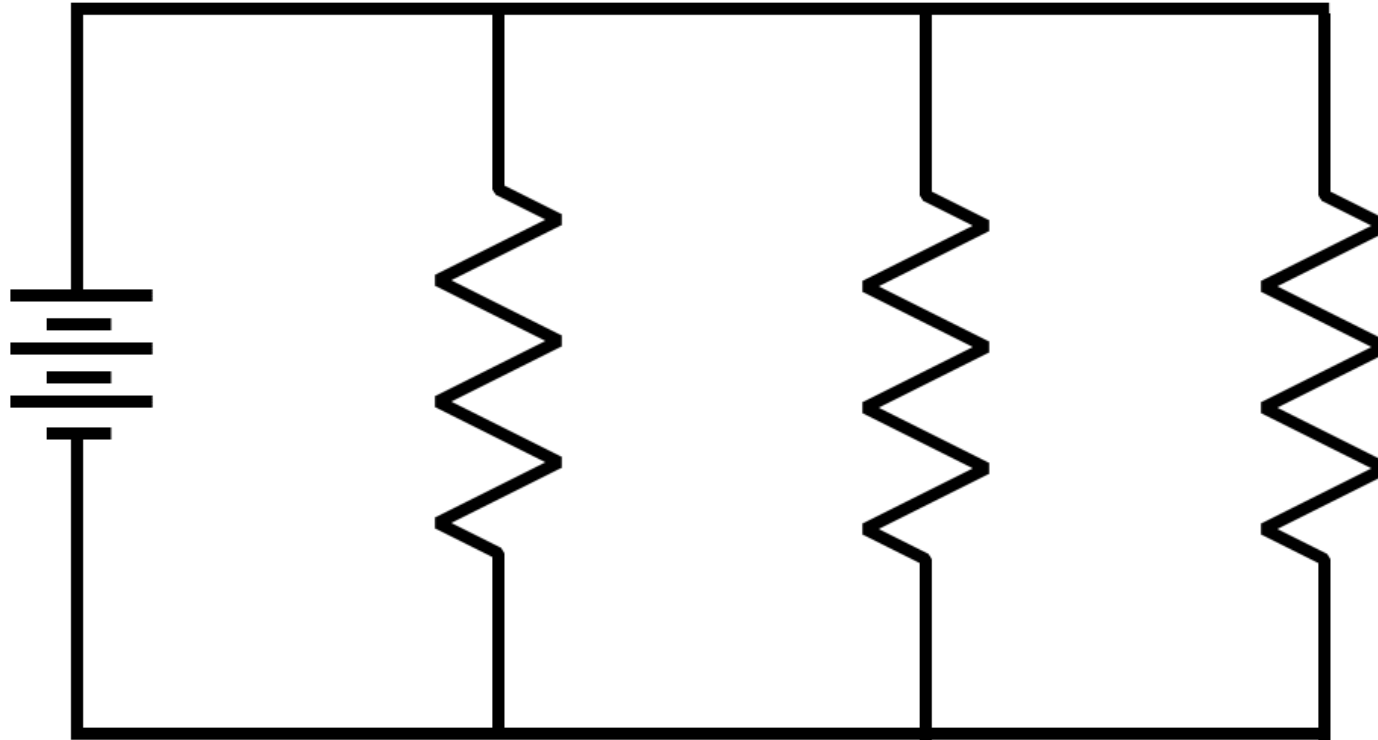
$$R_2 = 4 \text{ Ohms}$$

$$P_T =$$

$$E_T = 12.6 \text{ Volts}$$

$$I_T =$$

$$R_T =$$



$$P_3 =$$

$$E_3 = 12.6 \text{ Volts}$$

$$I_3 =$$

$$R_3 = 16 \text{ Ohms}$$

$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

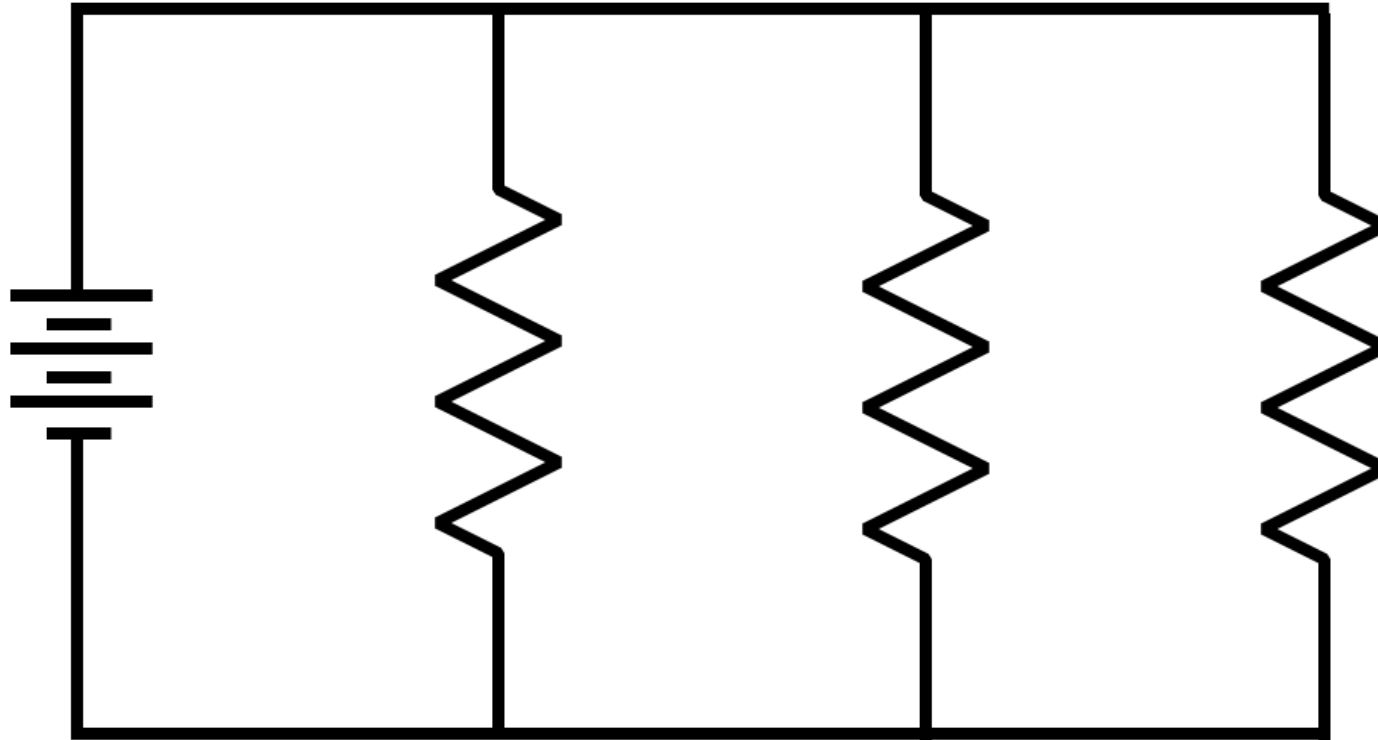
Math

Rule

$$\begin{aligned} P_1 &= 24.80625 \text{ Watts} \\ E_1 &= 12.6 \text{ Volts} \\ I_1 &= 1.96875 \text{ Amps} \\ R_1 &= 6.4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_2 &= 39.69 \text{ Watts} \\ E_2 &= 12.6 \text{ Volts} \\ I_2 &= 3.15 \text{ Amps} \\ R_2 &= 4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_T &= \\ E_T &= 12.6 \text{ Volts} \\ I_T &= \\ R_T &= \end{aligned}$$



$$\begin{aligned} P_3 &= 9.9225 \text{ Watts} \\ E_3 &= 12.6 \text{ Volts} \\ I_3 &= .7875 \text{ Amps} \\ R_3 &= 16 \text{ Ohms} \end{aligned}$$

$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

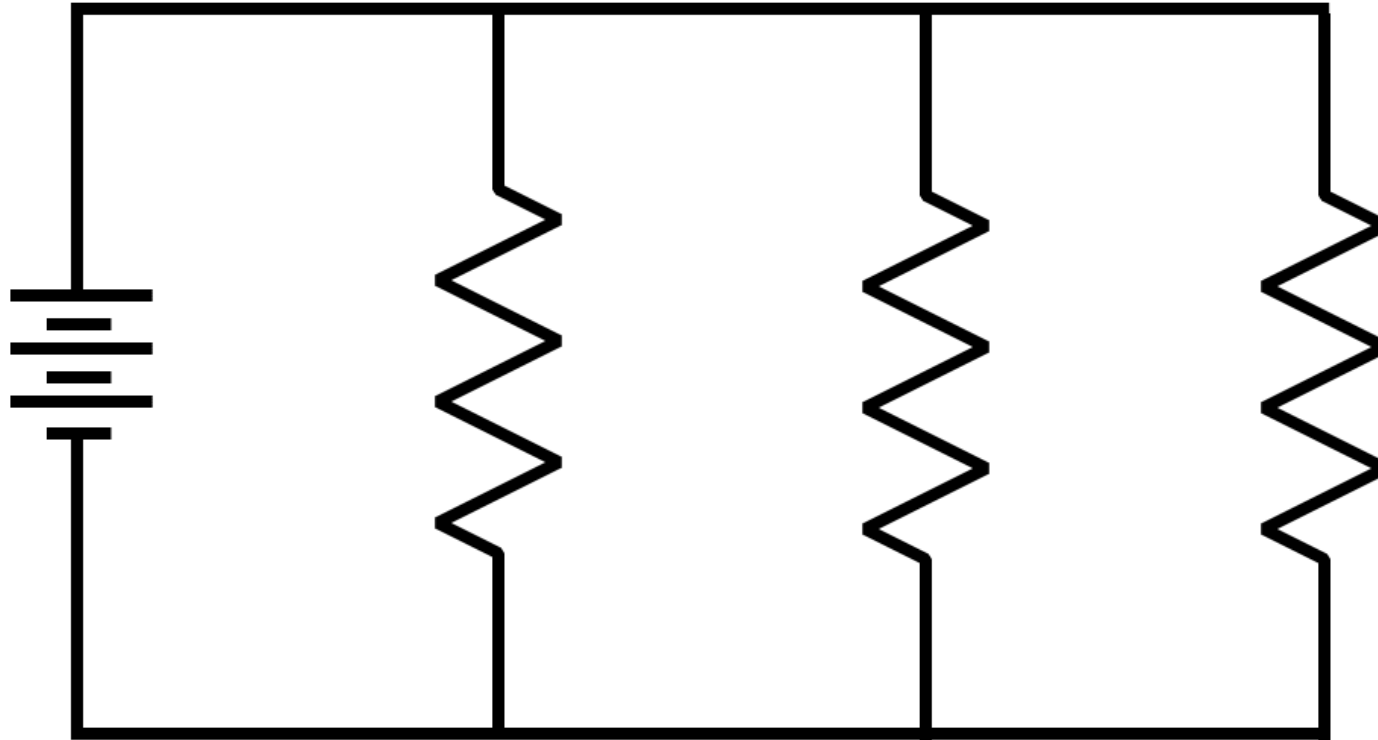
Math

Rule

$$\begin{aligned} P_1 &= 24.80625 \text{ Watts} \\ E_1 &= 12.6 \text{ Volts} \\ I_1 &= 1.96875 \text{ Amps} \\ R_1 &= 6.4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_2 &= 39.69 \text{ Watts} \\ E_2 &= 12.6 \text{ Volts} \\ I_2 &= 3.15 \text{ Amps} \\ R_2 &= 4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_T &= \\ E_T &= 12.6 \text{ Volts} \\ I_T &= 5.90625 \text{ Amps} \\ R_T &= \end{aligned}$$



$$\begin{aligned} P_3 &= 9.9225 \text{ Watts} \\ E_3 &= 12.6 \text{ Volts} \\ I_3 &= .7875 \text{ Amps} \\ R_3 &= 16 \text{ Ohms} \end{aligned}$$

$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

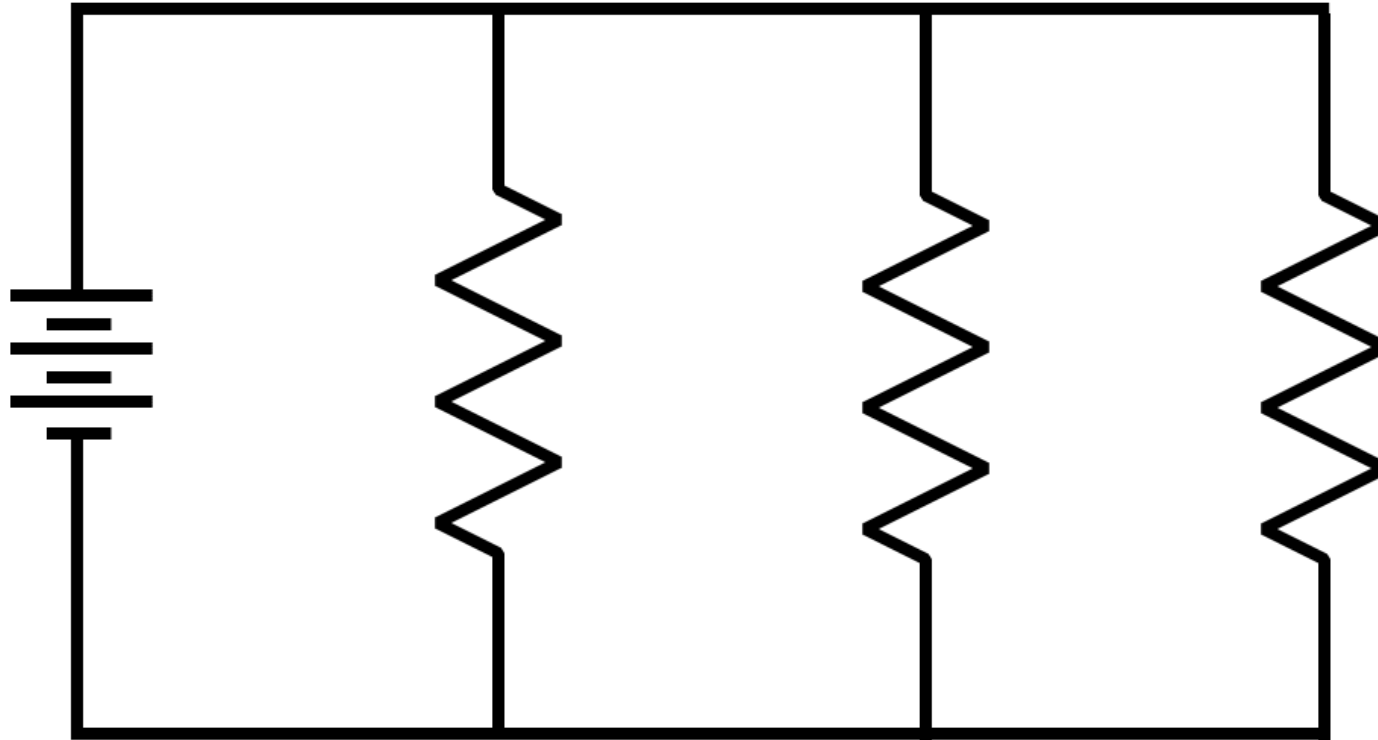
Math

Rule

$$\begin{aligned} P_1 &= 24.80625 \text{ Watts} \\ E_1 &= 12.6 \text{ Volts} \\ I_1 &= 1.96875 \text{ Amps} \\ R_1 &= 6.4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_2 &= 39.69 \text{ Watts} \\ E_2 &= 12.6 \text{ Volts} \\ I_2 &= 3.15 \text{ Amps} \\ R_2 &= 4 \text{ Ohms} \end{aligned}$$

$$\begin{aligned} P_T &= 74.41875 \\ E_T &= 12.6 \text{ Volts} \\ I_T &= 5.90625 \text{ Amps} \\ R_T &= 2.13333 \text{ Ohms} \end{aligned}$$



$$\begin{aligned} P_3 &= 9.9225 \text{ Watts} \\ E_3 &= 12.6 \text{ Volts} \\ I_3 &= .7875 \text{ Amps} \\ R_3 &= 16 \text{ Ohms} \end{aligned}$$

$$E_1 = 12.6 \text{ Volts}$$

$$R_1 = 6.4 \text{ Ohms}$$

$$R_2 = 4 \text{ Ohms}$$

$$R_3 = 16 \text{ Ohms}$$

Find All Values of P, E, I and R using Ohm's Law and Parallel Rules