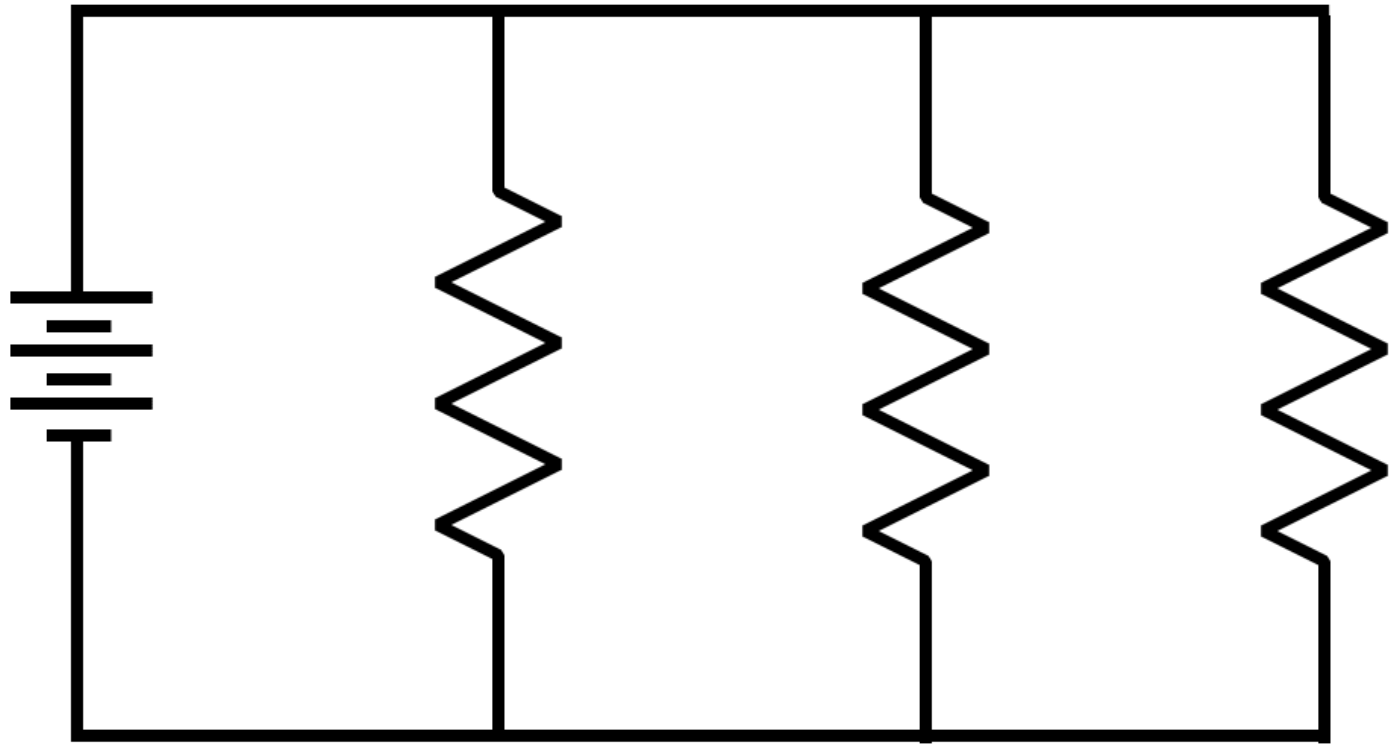
Example 3

Math

Rule

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 =$

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$



$P_T =$
$E_T =$
$I_T =$
$R_T =$

$P_3 =$
$E_3 =$
$I_3 =$
$R_3 =$

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

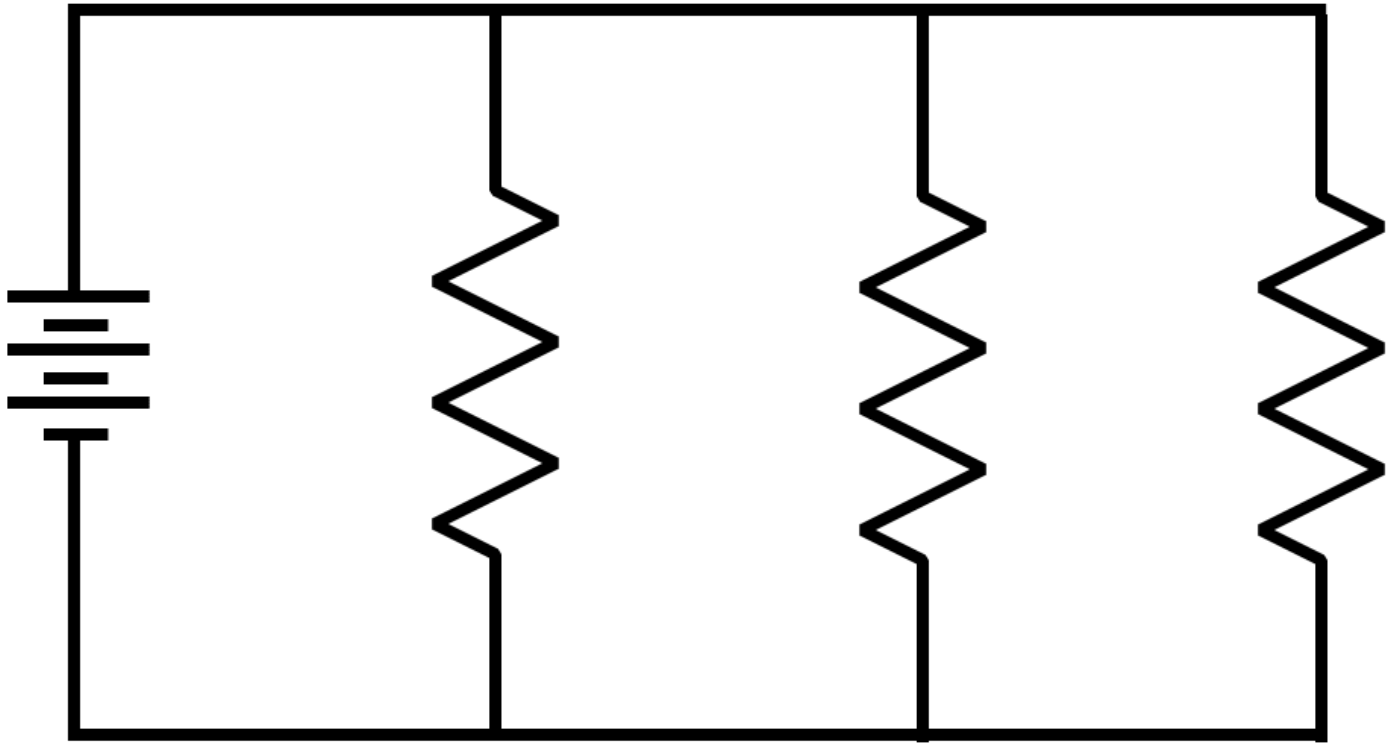
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 =$ 12 Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$ 8 Ohms



$P_T =$
$E_T =$
$I_T =$ 10 Amps
$R_T =$

$P_3 =$
$E_3 =$
$I_3 =$
$R_3 =$ 4.8 Ohms

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

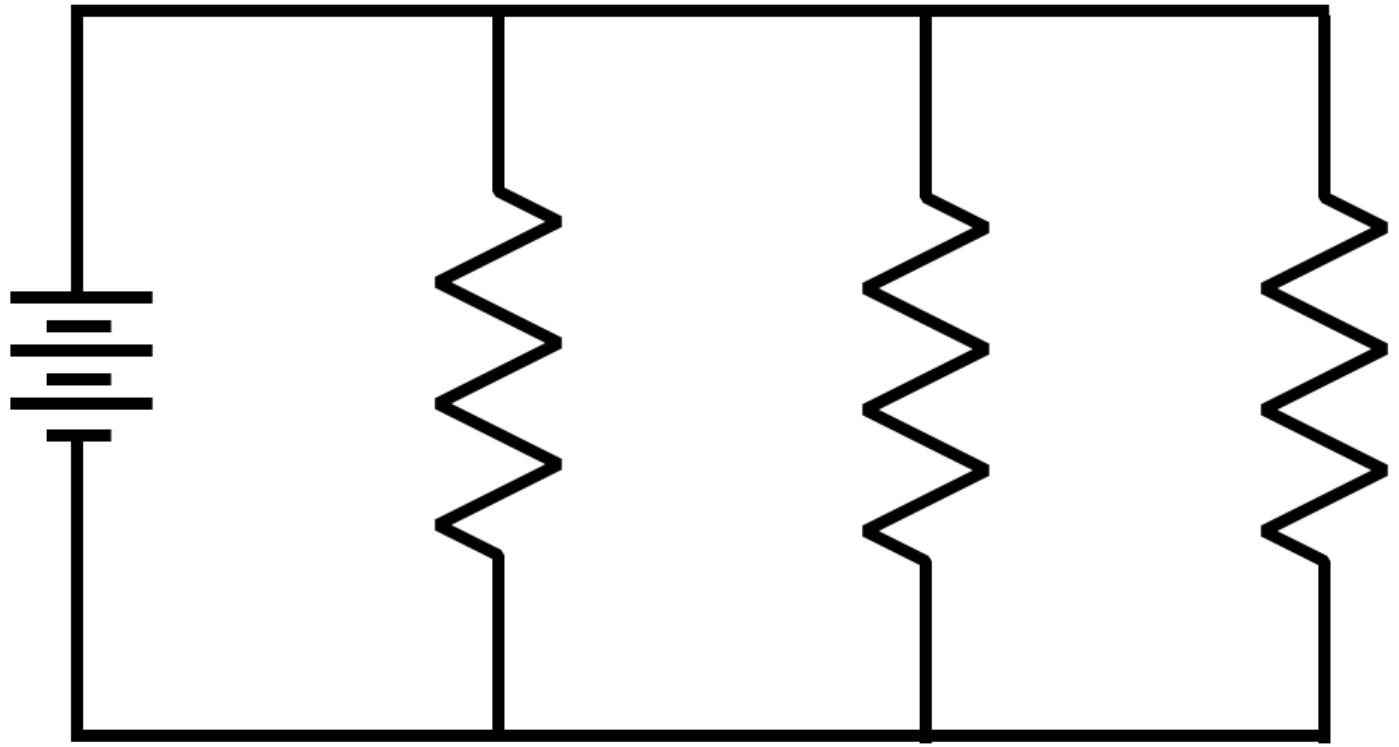
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 =$ 12 Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$ 8 Ohms



$P_T =$
$E_T =$
$I_T =$ 10 Amps
$R_T =$ 2.4 Ohms

$P_3 =$
$E_3 =$
$I_3 =$
$R_3 =$ 4.8 Ohms

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

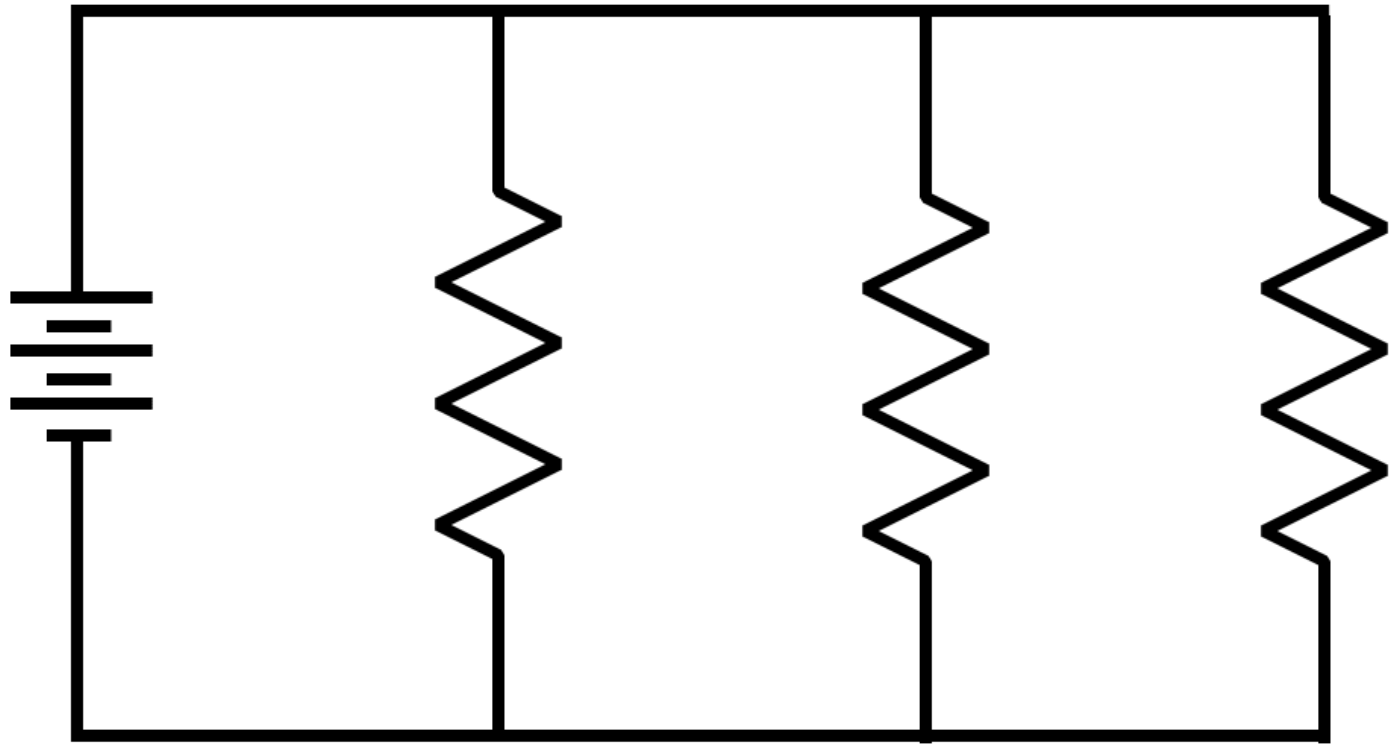
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 =$
$E_1 =$
$I_1 =$
$R_1 =$ 12 Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$ 8 Ohms



$P_T =$ 240 Watts
$E_T =$ 24 Volts
$I_T =$ 10 Amps
$R_T =$ 2.4 Ohms

$P_3 =$
$E_3 =$
$I_3 =$
$R_3 =$ 4.8 Ohms

$I_T =$ 10 Amps $R_1 =$ 12 Ohms $R_2 =$ 8 Ohms $R_3 =$ 4.8 Ohms

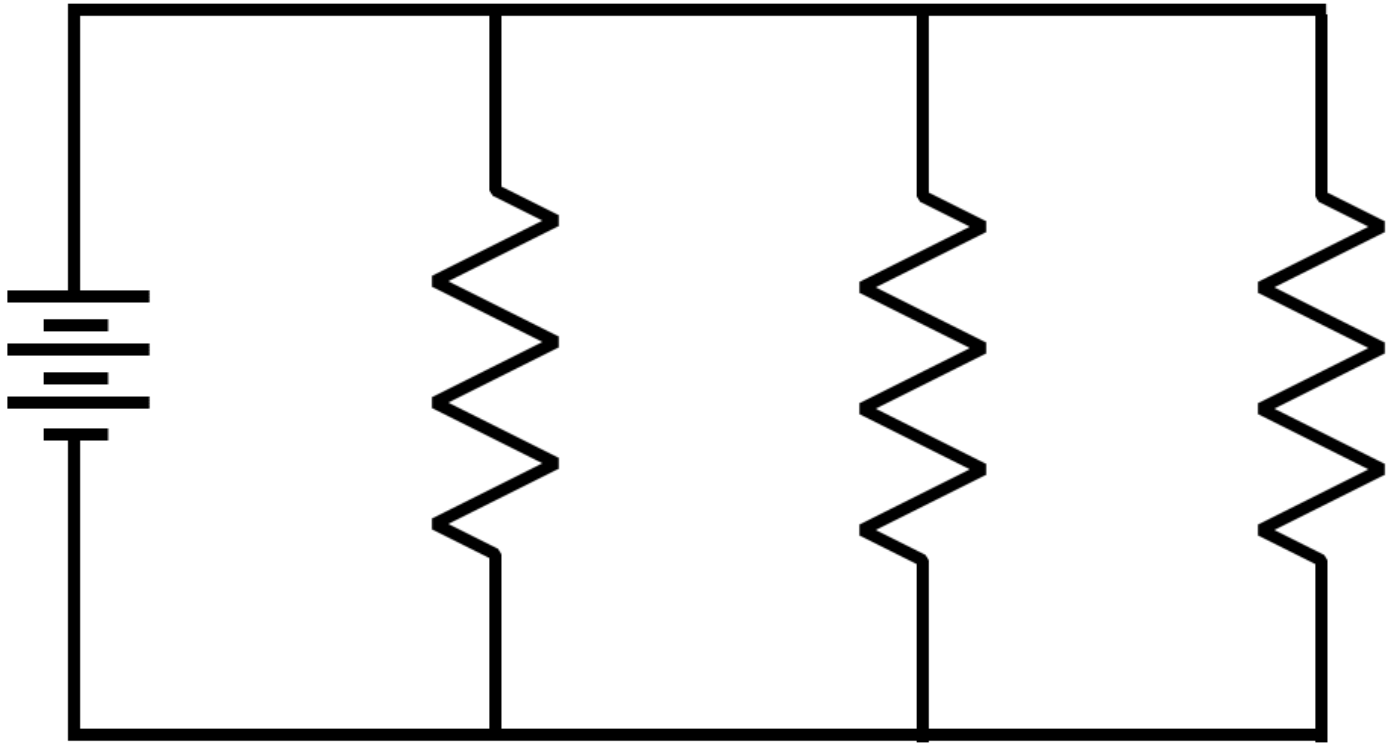
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 =$
$E_1 = 24$ Volts
$I_1 =$
$R_1 = 12$ Ohms

$P_2 =$
$E_2 = 24$ Volts
$I_2 =$
$R_2 = 8$ Ohms



$P_T = 240$ Watts
$E_T = 24$ Volts
$I_T = 10$ Amps
$R_T = 2.4$ Ohms

$P_3 =$
$E_3 = 24$ Volts
$I_3 =$
$R_3 = 4.8$ Ohms

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

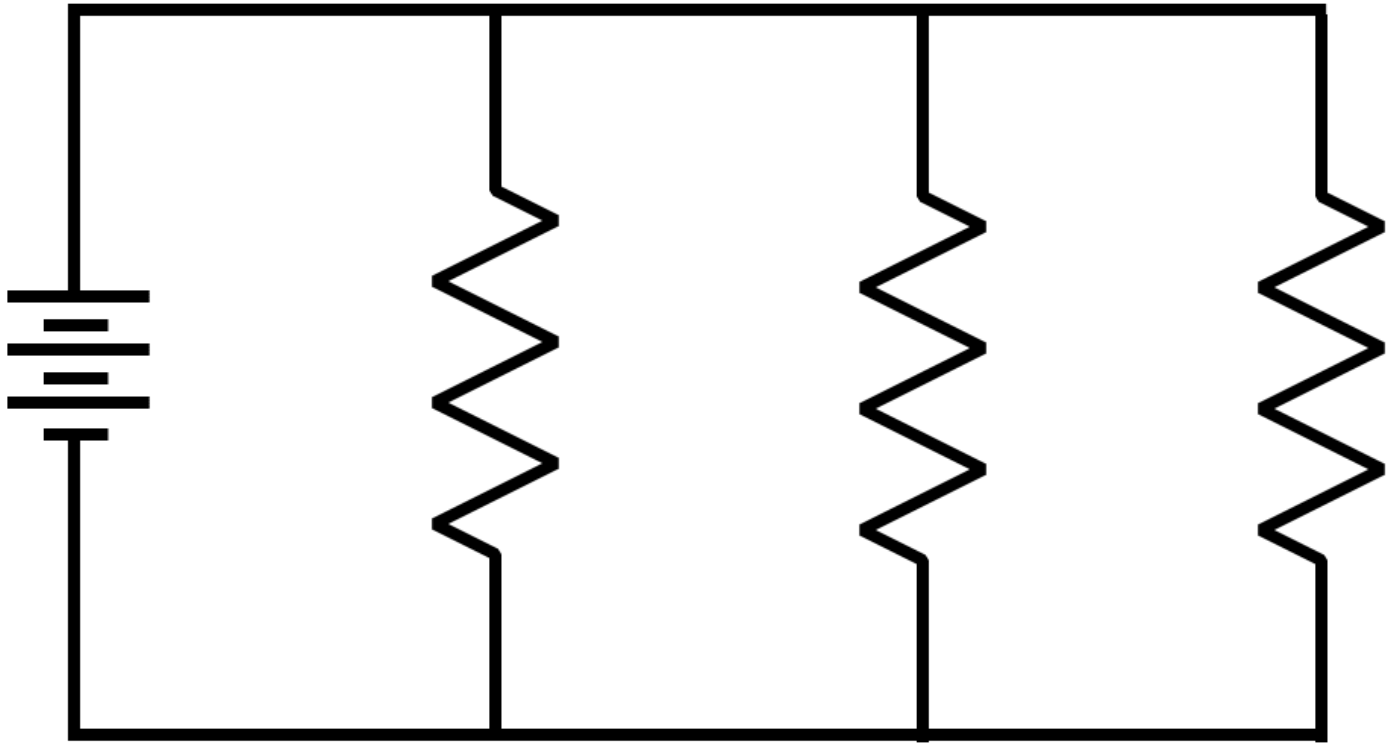
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 = 48$ Watts
$E_1 = 24$ Volts
$I_1 = 2$ Amps
$R_1 = 12$ Ohms

$P_2 =$
$E_2 = 24$ Volts
$I_2 =$
$R_2 = 8$ Ohms



$P_T = 240$ Watts
$E_T = 24$ Volts
$I_T = 10$ Amps
$R_T = 2.4$ Ohms

$P_3 =$
$E_3 = 24$ Volts
$I_3 =$
$R_3 = 4.8$ Ohms

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

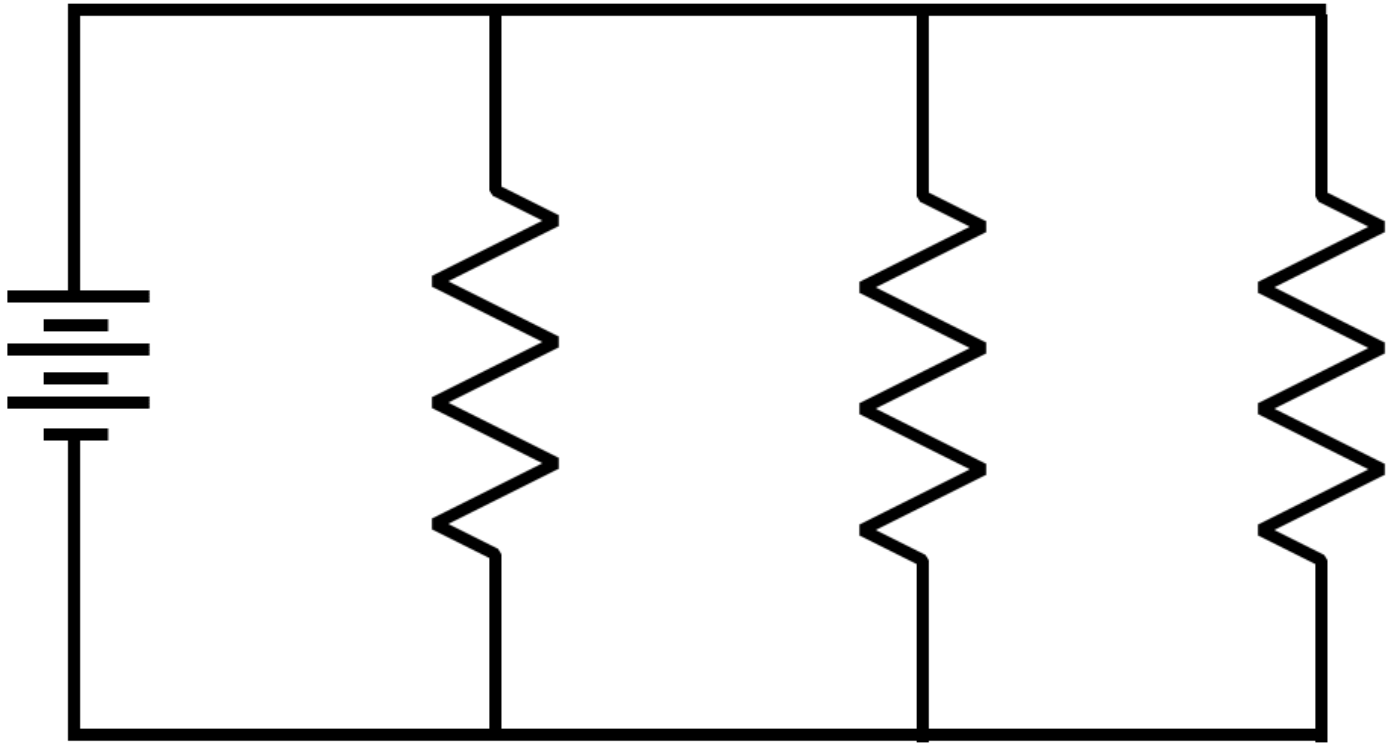
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 = 48$ Watts
$E_1 = 24$ Volts
$I_1 = 2$ Amps
$R_1 = 12$ Ohms

$P_2 = 72$ Watts
$E_2 = 24$ Volts
$I_2 = 3$ Amps
$R_2 = 8$ Ohms



$P_T = 240$ Watts
$E_T = 24$ Volts
$I_T = 10$ Amps
$R_T = 2.4$ Ohms

$P_3 =$
$E_3 = 24$ Volts
$I_3 =$
$R_3 = 4.8$ Ohms

$I_T = 10$ Amps $R_1 = 12$ Ohms $R_2 = 8$ Ohms $R_3 = 4.8$ Ohms

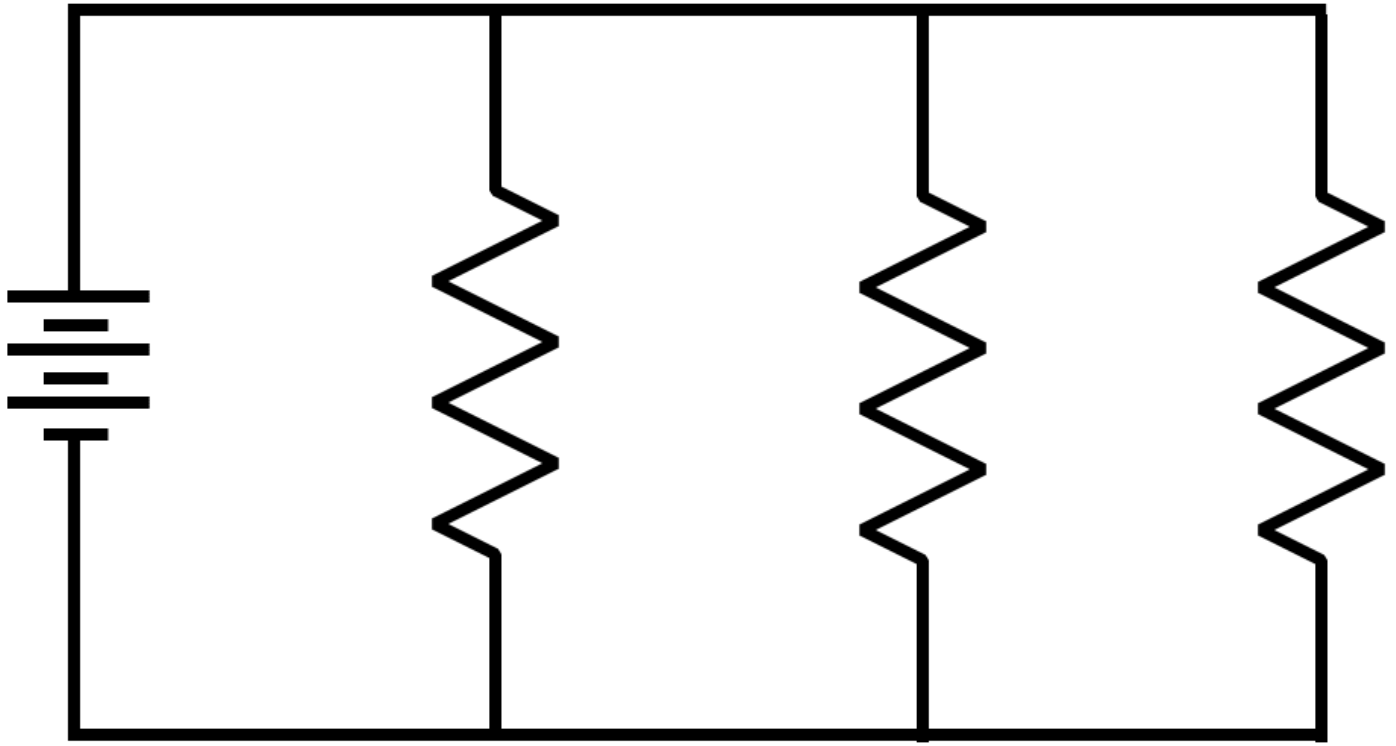
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 = 48$ Watts
$E_1 = 24$ Volts
$I_1 = 2$ Amps
$R_1 = 12$ Ohms

$P_2 = 72$ Watts
$E_2 = 24$ Volts
$I_2 = 3$ Amps
$R_2 = 8$ Ohms



$P_T = 240$ Watts
$E_T = 24$ Volts
$I_T = 10$ Amps
$R_T = 2.4$ Ohms

$P_3 = 120$ Watts
$E_3 = 24$ Volts
$I_3 = 5$ Amps
$R_3 = 4.8$ Ohms

$I_T = 10$ Amps $\quad R_1 = 12$ Ohms $\quad R_2 = 8$ Ohms $\quad R_3 = 4.8$ Ohms

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