Parallel Example 2

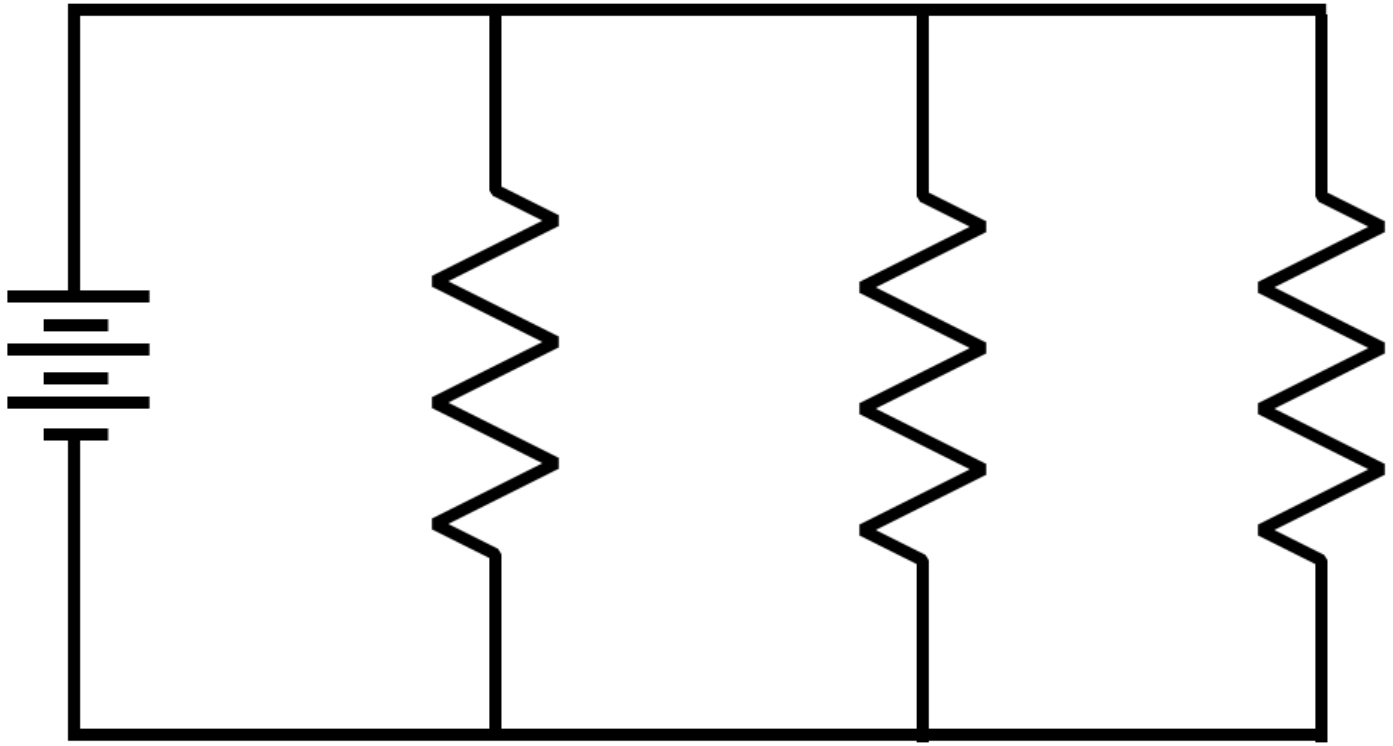
Math

Rule

$P_1 =$
$E_1 =$ 12.6 Volts
$I_1 =$
$R_1 =$ 6.4 Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 =$ 4 Ohms

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



$P_3 =$
$E_3 =$
$I_3 =$
$R_3 =$ 16 Ohms

$E_1 =$ 12.6 Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

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

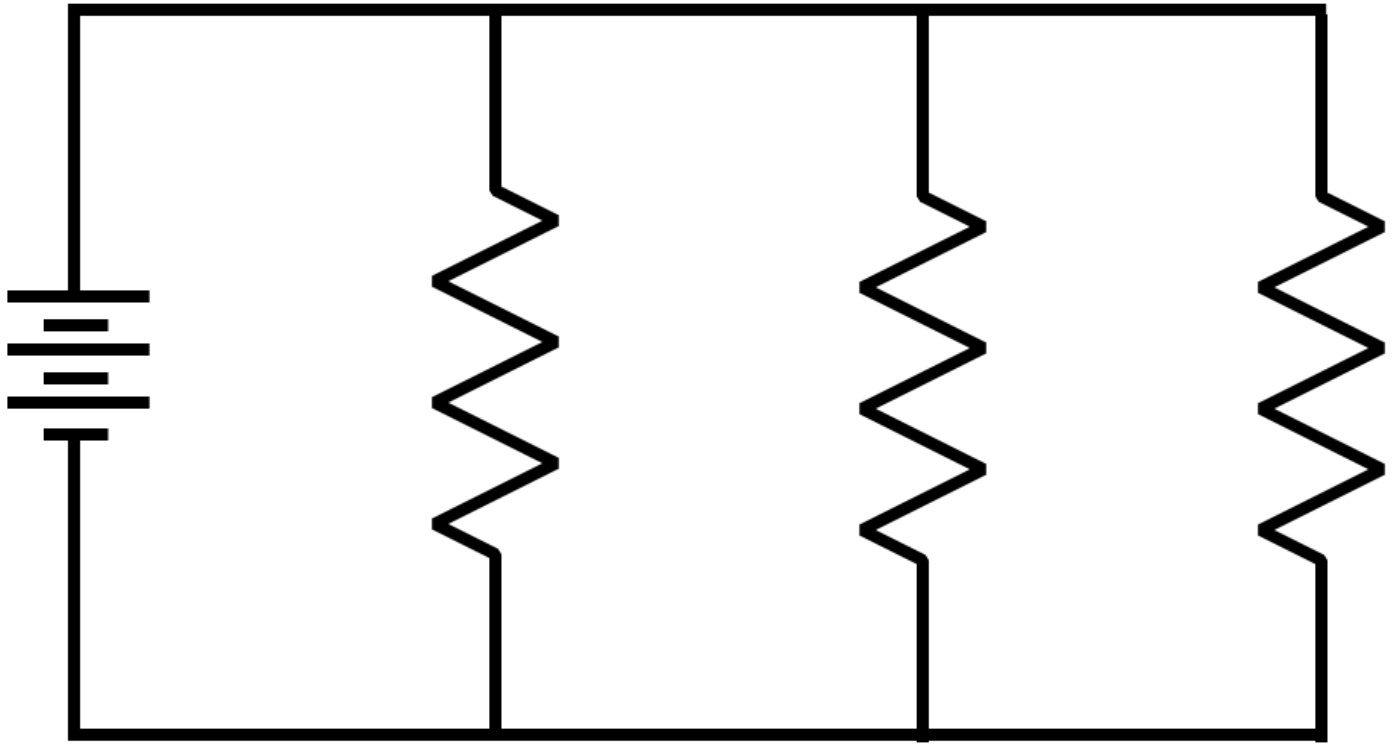
Math

Rule

$P_1 = 24.80625$ Watts
$E_1 = 12.6$ Volts
$I_1 = 1.96875$ Amps
$R_1 = 6.4$ Ohms

$P_2 =$
$E_2 =$
$I_2 =$
$R_2 = 4$ Ohms

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



$P_3 =$
$E_3 =$
$I_3 =$
$R_3 = 16$ Ohms

$E_1 = 12.6$ Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

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

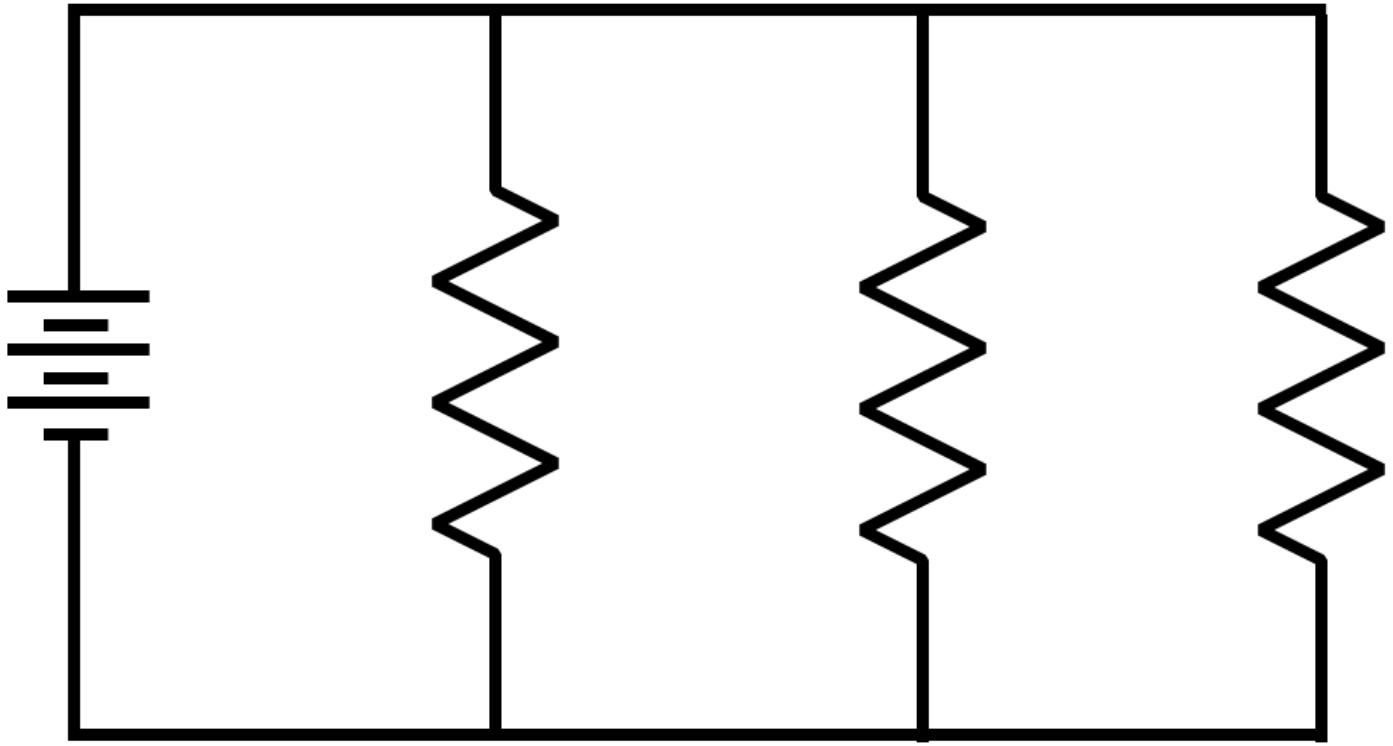
Math

Rule

$P_1 = 24.80625$ Watts
$E_1 = 12.6$ Volts
$I_1 = 1.96875$ Amps
$R_1 = 6.4$ Ohms

$P_2 =$
$E_2 = 12.6$ Volts
$I_2 =$
$R_2 = 4$ Ohms

$P_T =$
$E_T = 12.6$ Volts
$I_T =$
$R_T =$



$P_3 =$
$E_3 = 12.6$ Volts
$I_3 =$
$R_3 = 16$ Ohms

$E_1 = 12.6$ Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

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

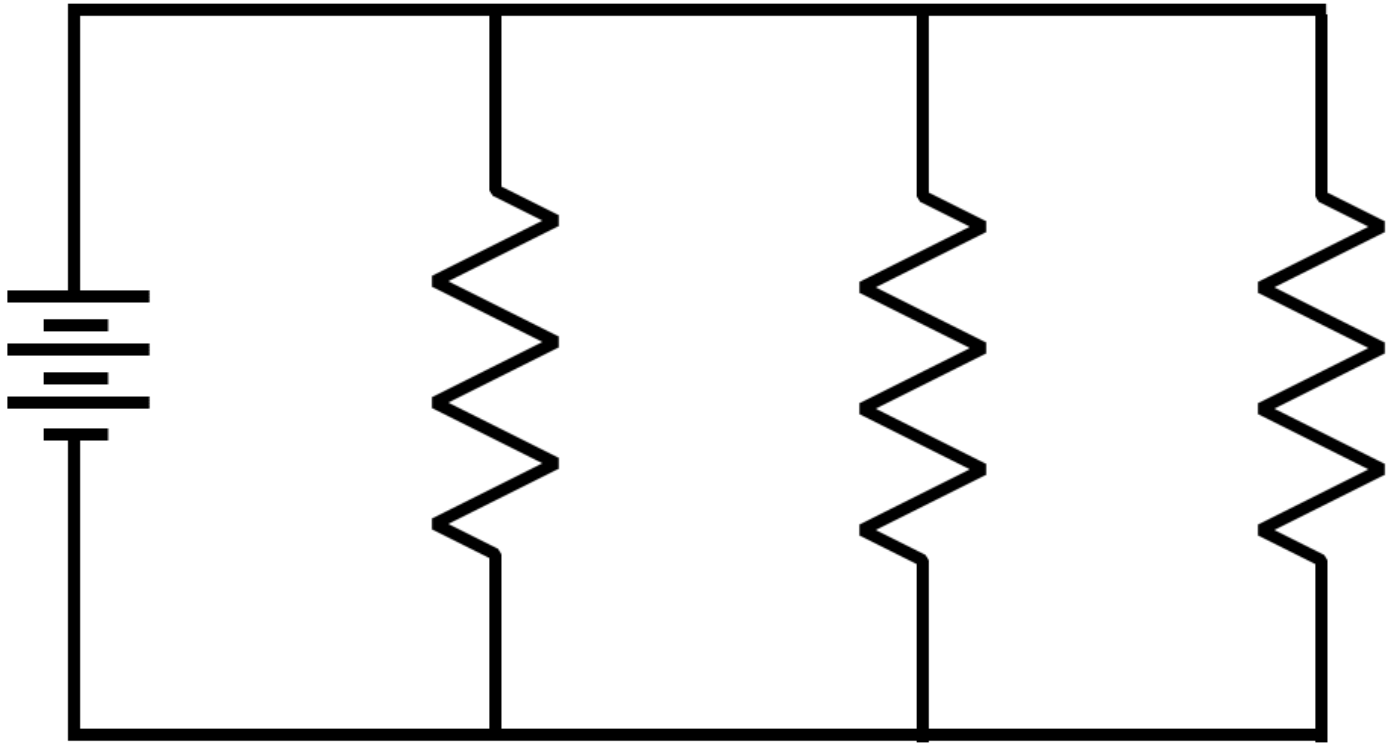
Math

Rule

$P_1 = 24.80625$ Watts
$E_1 = 12.6$ Volts
$I_1 = 1.96875$ Amps
$R_1 = 6.4$ Ohms

$P_2 = 39.69$ Watts
$E_2 = 12.6$ Volts
$I_2 = 3.15$ Amps
$R_2 = 4$ Ohms

$P_T =$
$E_T = 12.6$ Volts
$I_T =$
$R_T =$



$P_3 = 9.9225$ Watts
$E_3 = 12.6$ Volts
$I_3 = .7875$ Amps
$R_3 = 16$ Ohms

$E_1 = 12.6$ Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

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

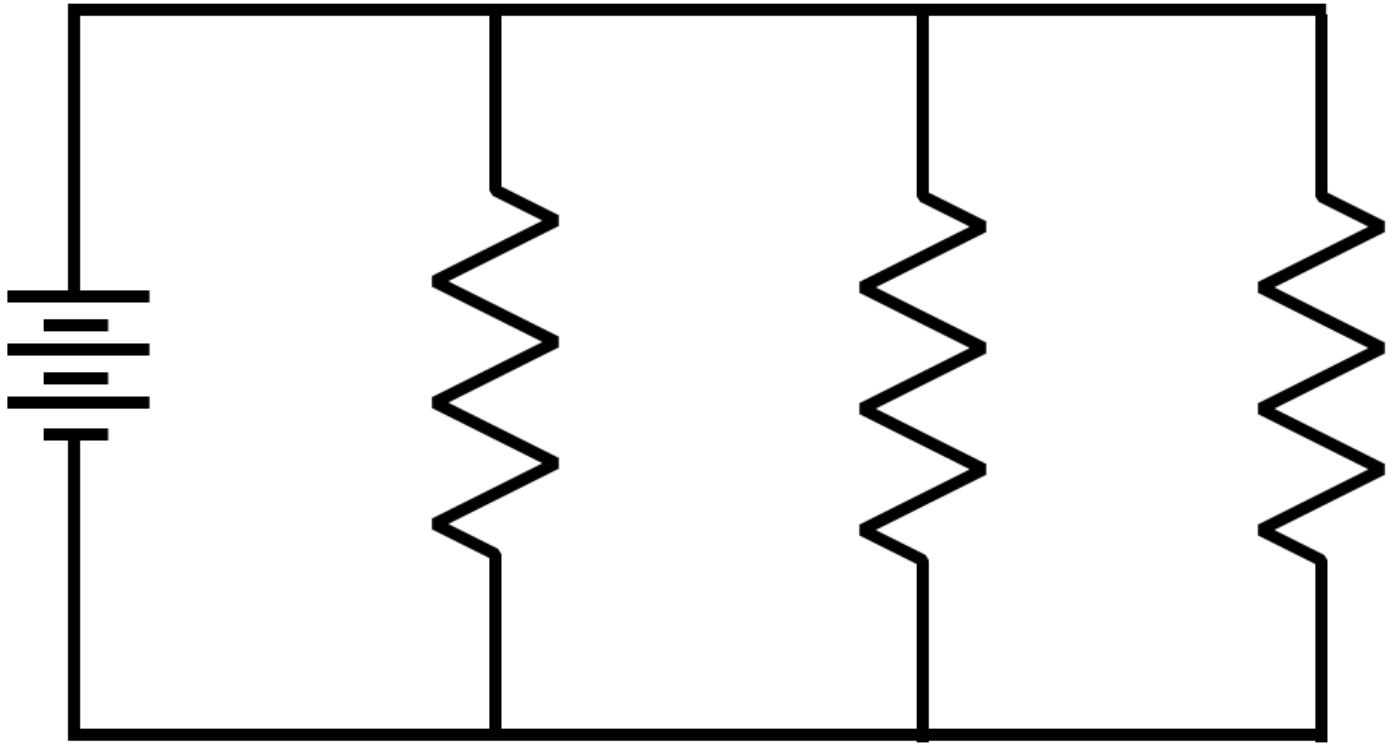
Math

Rule

$P_1 = 24.80625$ Watts
$E_1 = 12.6$ Volts
$I_1 = 1.96875$ Amps
$R_1 = 6.4$ Ohms

$P_2 = 39.69$ Watts
$E_2 = 12.6$ Volts
$I_2 = 3.15$ Amps
$R_2 = 4$ Ohms

$P_T =$
$E_T = 12.6$ Volts
$I_T = 5.90625$ Amps
$R_T =$



$P_3 = 9.9225$ Watts
$E_3 = 12.6$ Volts
$I_3 = .7875$ Amps
$R_3 = 16$ Ohms

$E_1 = 12.6$ Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

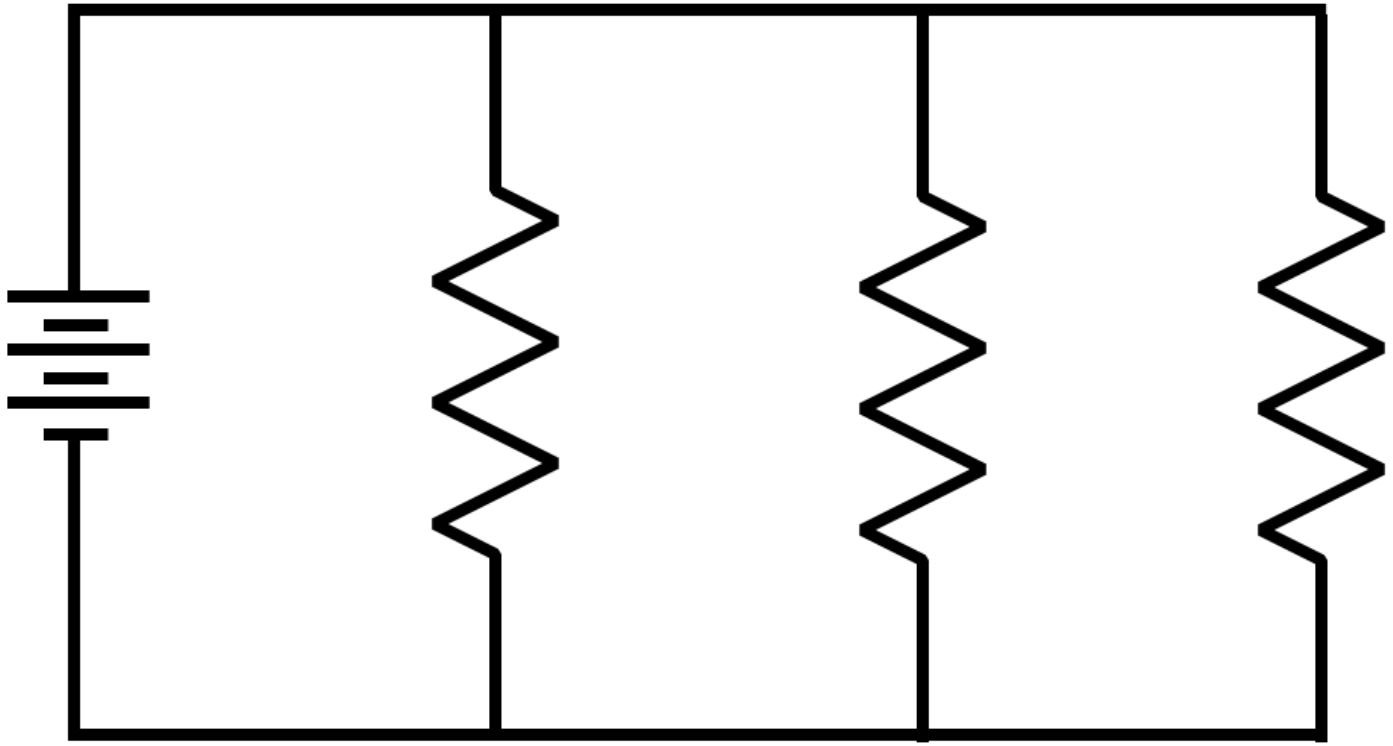
Find All Values of P, E, I and R using Ohm's Law and Parallel Rules

Math

Rule

$P_1 = 24.80625$ Watts
$E_1 = 12.6$ Volts
$I_1 = 1.96875$ Amps
$R_1 = 6.4$ Ohms

$P_2 = 39.69$ Watts
$E_2 = 12.6$ Volts
$I_2 = 3.15$ Amps
$R_2 = 4$ Ohms



$P_T = 74.41875$
$E_T = 12.6$ Volts
$I_T = 5.90625$ Amps
$R_T = 2.13333$ Ohms

$P_3 = 9.9225$ Watts
$E_3 = 12.6$ Volts
$I_3 = .7875$ Amps
$R_3 = 16$ Ohms

$E_1 = 12.6$ Volts $R_1 = 6.4$ Ohms $R_2 = 4$ Ohms $R_3 = 16$ Ohms

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