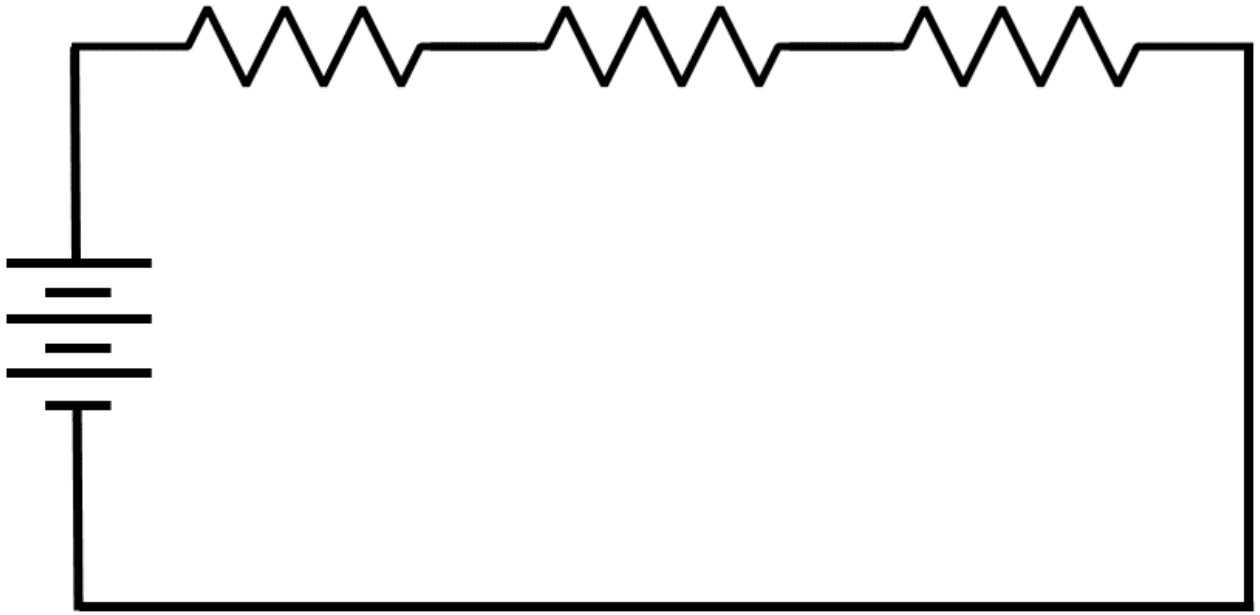
Series Circuit Math - Example 4

Series Example 4



$E_T = 12$ Volts $R_T = 24$ Ohms $R_1 = 8$ Ohms $R_2 = 4$ Ohms

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

$E_1 =$

$I_1 =$

$R_1 = 8$ Ohms

$E_2 =$

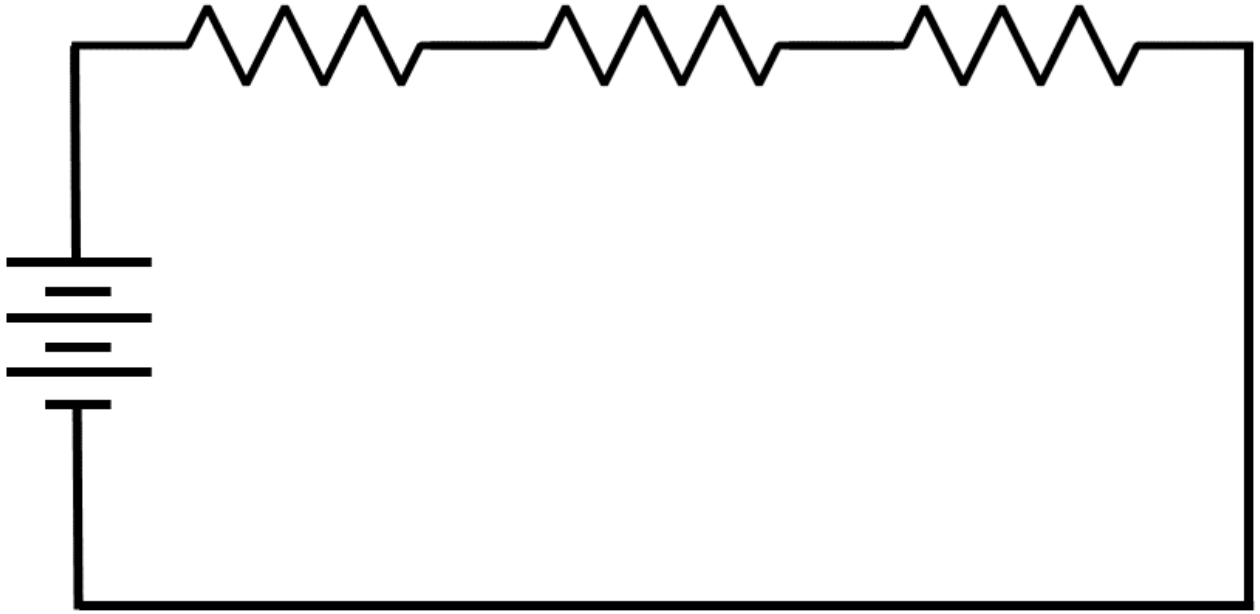
$I_2 =$

$R_2 = 4$ Ohms

$E_3 =$

$I_3 =$

$R_3 =$



$E_T = 12$ Volts

$I_T =$

$R_T = 24$ Ohms

$E_1 =$

$I_1 =$

$R_1 = 8$ Ohms

$E_2 =$

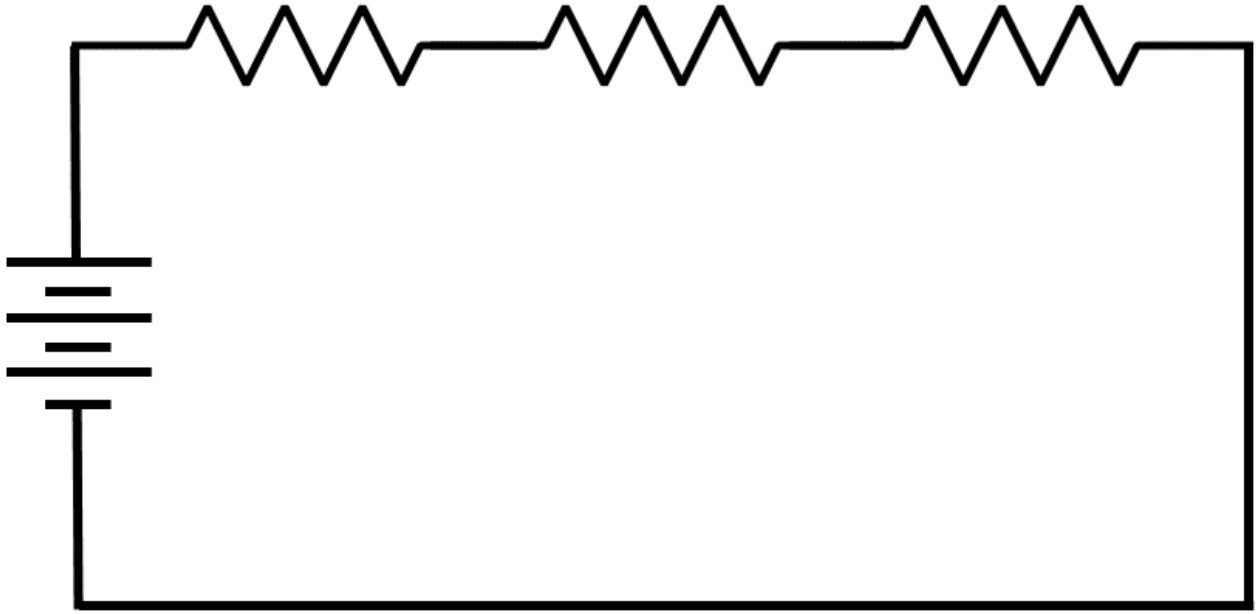
$I_2 =$

$R_2 = 4$ Ohms

$E_3 =$

$I_3 =$

$R_3 =$



$E_T = 12$ Volts

$I_T = 0.5$ Amps

$R_T = 24$ Ohms

$E_1 =$

$I_1 = 0.5$ Amps

$R_1 = 8$ Ohms

$E_2 =$

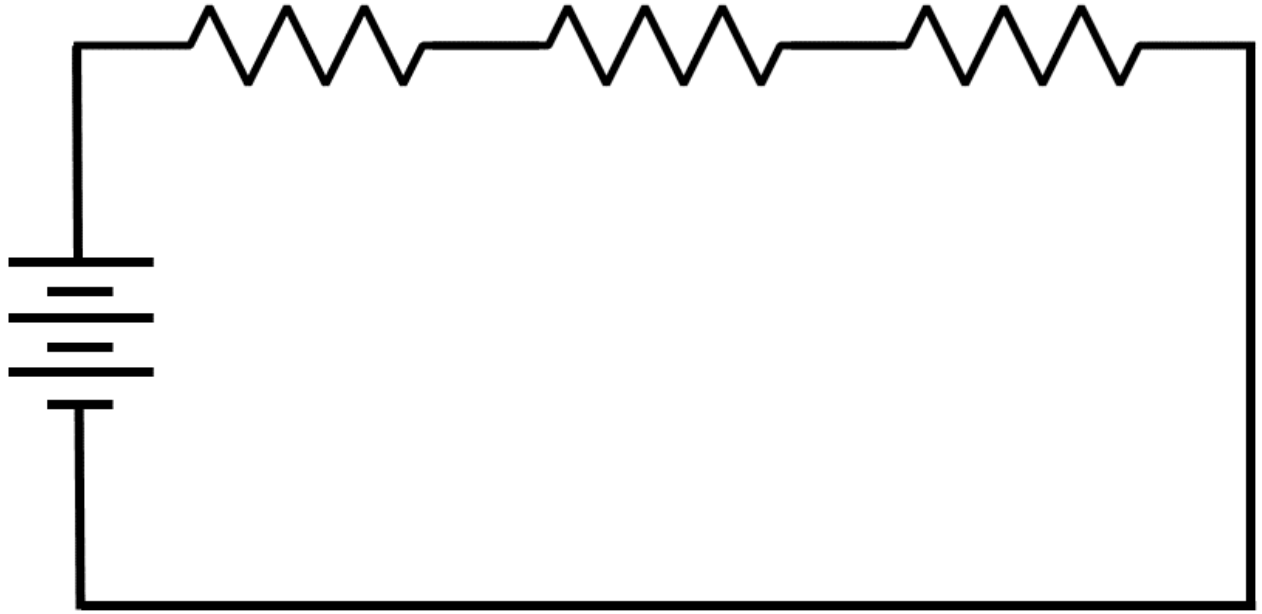
$I_2 = 0.5$ Amps

$R_2 = 4$ Ohms

$E_3 =$

$I_3 = 0.5$ Amps

$R_3 =$



$E_T = 12$ Volts

$I_T = 0.5$ Amps

$R_T = 24$ Ohms

$E_1 = 4$ Volts

$I_1 = 0.5$ Amps

$R_1 = 8$ Ohms

$E_2 = 2$ Volts

$I_2 = 0.5$ Amps

$R_2 = 4$ Ohms

$E_3 =$

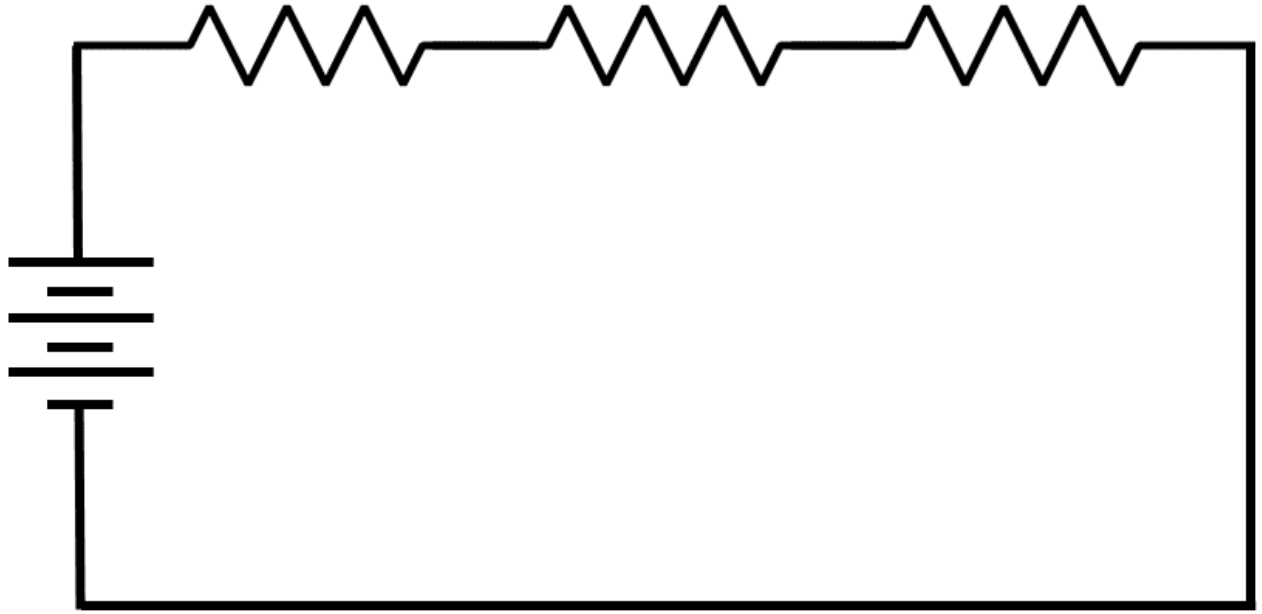
$I_3 = 0.5$ Amps

$R_3 =$

$E_T = 12$ Volts

$I_T = 0.5$ Amps

$R_T = 24$ Ohms



$E_1 = 4$ Volts

$I_1 = 0.5$ Amps

$R_1 = 8$ Ohms

$E_2 = 2$ Volts

$I_2 = 0.5$ Amps

$R_2 = 4$ Ohms

$E_3 =$

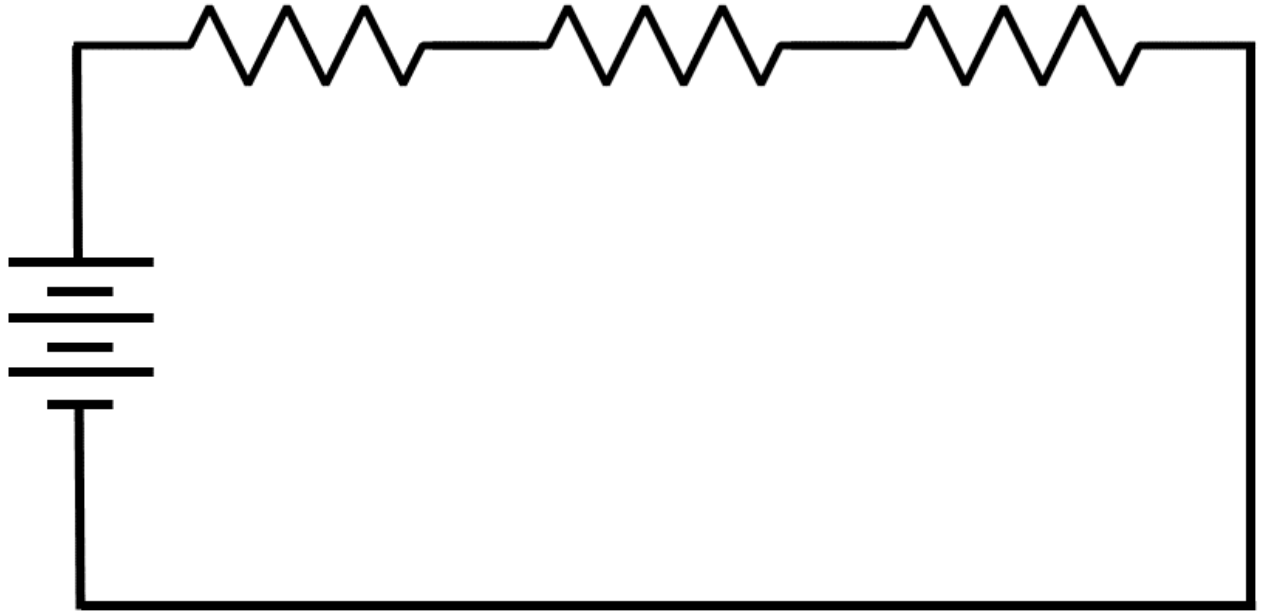
$I_3 = 0.5$ Amps

$R_3 = 12$ Ohms

$E_T = 12$ Volts

$I_T = 0.5$ Amps

$R_T = 24$ Ohms



$E_1 = 4$ Volts

$I_1 = 0.5$ Amps

$R_1 = 8$ Ohms

$E_2 = 2$ Volts

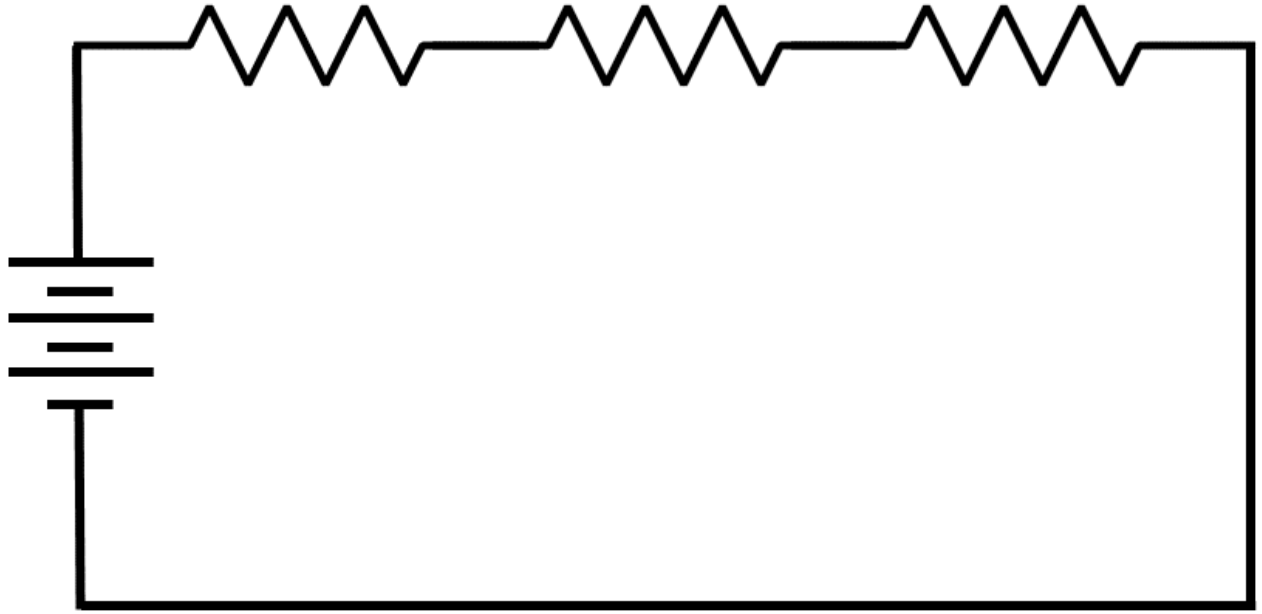
$I_2 = 0.5$ Amps

$R_2 = 4$ Ohms

$E_3 = 6$ Volts

$I_3 = 0.5$ Amps

$R_3 = 12$ Ohms



$E_T = 12$ Volts

$I_T = 0.5$ Amps

$R_T = 24$ Ohms