

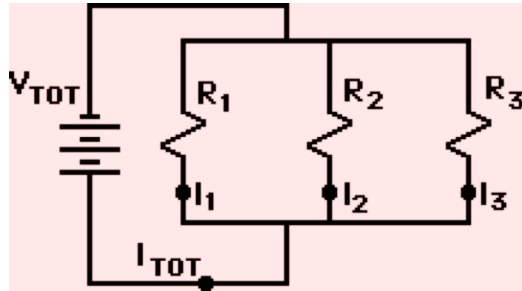
Circuit Analysis

Read from Lesson 4 of the Current Electricity chapter at The Physics Classroom:

- <http://www.physicsclassroom.com/Class/circuits/u9l4b.html>
- <http://www.physicsclassroom.com/Class/circuits/u9l4c.html>
- <http://www.physicsclassroom.com/Class/circuits/u9l4d.html>

MOP Connection: Electric Circuits: sublevel 11

1. Fill in the blanks in the following diagram. Show appropriate units.



$V_{Tot} = 60.0 \text{ V}$

$R_1 = 12.5 \ \Omega \quad R_2 = 14.7 \ \Omega \quad R_3 = 19.1 \ \Omega$

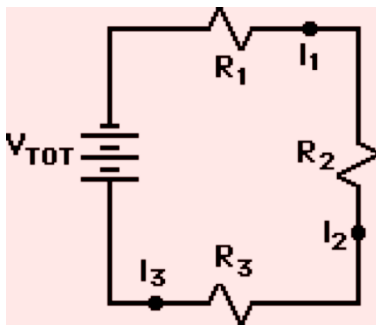
$R_{Tot} = \underline{\hspace{2cm}} \quad I_{Tot} = \underline{\hspace{2cm}}$

$\Delta V_1 = \underline{\hspace{2cm}} \quad I_1 = \underline{\hspace{2cm}}$

$\Delta V_2 = \underline{\hspace{2cm}} \quad I_2 = \underline{\hspace{2cm}}$

$\Delta V_3 = \underline{\hspace{2cm}} \quad I_3 = \underline{\hspace{2cm}}$

2. Fill in the blanks in the following diagram. Show appropriate units.



$V_{Tot} = 60.0 \text{ V}$

$R_1 = 12.5 \ \Omega \quad R_2 = 14.7 \ \Omega \quad R_3 = 19.1 \ \Omega$

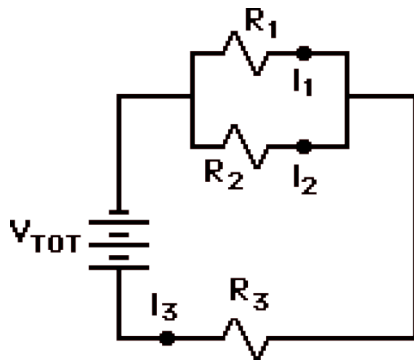
$R_{Tot} = \underline{\hspace{2cm}} \quad I_{Tot} = \underline{\hspace{2cm}}$

$\Delta V_1 = \underline{\hspace{2cm}} \quad I_1 = \underline{\hspace{2cm}}$

$\Delta V_2 = \underline{\hspace{2cm}} \quad I_2 = \underline{\hspace{2cm}}$

$\Delta V_3 = \underline{\hspace{2cm}} \quad I_3 = \underline{\hspace{2cm}}$

3. Fill in the blanks in the following diagram. Show appropriate units.



$V_{Tot} = 120.0 \text{ V}$

$R_1 = 16.0 \ \Omega \quad R_2 = 16.0 \ \Omega \quad R_3 = 6.0 \ \Omega$

$R_{Tot} = \underline{\hspace{2cm}} \quad I_{Tot} = \underline{\hspace{2cm}}$

$\Delta V_1 = \underline{\hspace{2cm}} \quad I_1 = \underline{\hspace{2cm}}$

$\Delta V_2 = \underline{\hspace{2cm}} \quad I_2 = \underline{\hspace{2cm}}$

$\Delta V_3 = \underline{\hspace{2cm}} \quad I_3 = \underline{\hspace{2cm}}$