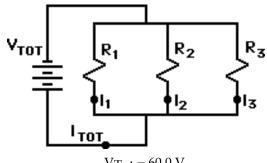
## **Still More Circuit Analysis**

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

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



 $V_{Tot} = 60.0 V$ 

 $R_{Tot} = \underline{\qquad} I_{Tot} = \underline{\qquad}$ 

 $\Delta V_1 = \underline{\hspace{1cm}} I_1 = \underline{\hspace{1cm}}$ 

 $\Delta V_2 = \underline{\hspace{1cm}} I_2 = \underline{\hspace{1cm}}$ 

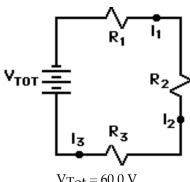
 $\Delta V_3 = \underline{\hspace{1cm}} I_3 = \underline{\hspace{1cm}}$ 

 $R_1 = 12.5 \Omega$ 

 $R_2 = 14.7 \Omega$ 

 $R_3 = 19.1 \Omega$ 

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



 $R_2 = 14.7 \Omega$ 

 $V_{Tot} = 60.0 V$ 

 $R_3 = 19.1 \Omega$ 

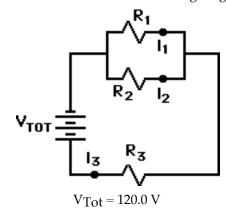
 $R_{Tot} = \underline{\hspace{1cm}} I_{Tot} = \underline{\hspace{1cm}}$ 

 $\Delta V_1 = \underline{\hspace{1cm}} I_1 = \underline{\hspace{1cm}}$ 

 $\Delta V_2 = \underline{\hspace{1cm}} I_2 = \underline{\hspace{1cm}}$ 

 $\Delta V_3 =$  I $_3 =$ 

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



 $R_1 = 16.0 \Omega$ 

 $R_1 = 12.5 \Omega$ 

 $R_2 = 16.0 \Omega$ 

 $R_3 = 6.0 \Omega$ 

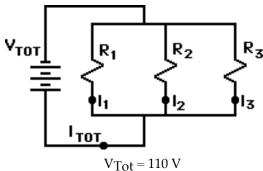
 $R_{Tot} = \underline{\hspace{1cm}} I_{Tot} = \underline{\hspace{1cm}}$ 

 $\Delta V_1 = I_1 =$ 

 $\Delta V_2 = \underline{\hspace{1cm}} I_2 = \underline{\hspace{1cm}}$ 

 $\Delta V_3 = \underline{\hspace{1cm}} I_3 = \underline{\hspace{1cm}}$ 

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

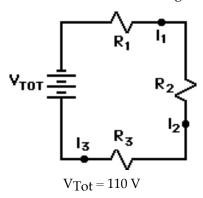


 $R_1=8.6\;\Omega$ 

$$v_{Tot} = 110 v$$

 $R_2 = 5.4 \Omega$  $R_3 = 9.2 \Omega$ 

- $R_{Tot}=$  $I_{Tot} =$
- $\Delta V_1 = \underline{\hspace{1cm}} I_1 = \underline{\hspace{1cm}}$
- $\Delta V_3 =$  \_\_\_\_\_ I<sub>3</sub> = \_\_\_\_
- Fill in the blanks in the following diagram. Show appropriate units. 5.



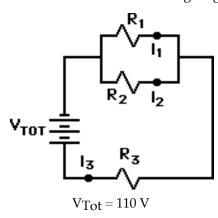
 $R_1=8.6\;\Omega$ 

$$R_2 = 5.4 \Omega$$

$$R_3 = 9.2 \Omega$$

- R<sub>Tot</sub>=\_\_\_\_\_ ITot =
- $\Delta V_1 = \underline{\hspace{1cm}} I_1 = \underline{\hspace{1cm}}$
- $\Delta V_2 = \underline{\hspace{1cm}} I_2 = \underline{\hspace{1cm}}$
- $\Delta V_3 =$  I $_3 =$

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



 $R_1=8.6\;\Omega$ 

$$R_2 = 5.4 \Omega$$

$$R_3=9.2\;\Omega$$

- $R_{Tot} =$   $I_{Tot} =$
- $\Delta V_1 = \underline{\hspace{1cm}} I_1 = \underline{\hspace{1cm}}$
- $\Delta V_2 = \underline{\hspace{1cm}} I_2 = \underline{\hspace{1cm}}$
- $\Delta V_3 =$  \_\_\_\_\_ I<sub>3</sub> = \_\_\_\_\_