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## Still More Circuit Analysis

Read from Lesson 4 of the Current Electricity chapter at The Physics Classroom:
http://www.physicsclassroom.com/Class/circuits/u914b.html http://www.physicsclassroom.com/Class/circuits/u914c.html http://www.physicsclassroom.com/Class/circuits/u914d.html

MOP Connection: Electric Circuits: sublevel 11

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

RTot $=$ $\qquad$ ITot $=$ $\qquad$
$\mathrm{R}_{1}=12.5 \Omega \quad \mathrm{R}_{2}=14.7 \Omega \quad \mathrm{R}_{3}=19.1 \Omega$
2. Fill in the blanks in the following diagram. Show appropriate units.


RTot $=$ $\qquad$
$\qquad$
$\qquad$
$\qquad$

$$
\mathrm{I} 3=
$$

$\qquad$

\[

\]

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


\[

\]

RTot $=$
ITot $=$ $\qquad$
$\qquad$
$\qquad$
$\qquad$
4. Fill in the blanks in the following diagram. Show appropriate units.

RTot= $\qquad$ I Tot $=$ $\qquad$
$\Delta V_{1}=$ $\qquad$

$$
\mathrm{I}_{1}=
$$

$\qquad$
$\Delta \mathrm{V}_{2}=$ $\qquad$ $\mathrm{I}_{2}=$ $\qquad$
$\mathrm{R}_{1}=8.6 \Omega$
$\mathrm{R}_{2}=5.4 \Omega$
$\mathrm{R}_{3}=9.2 \Omega$
$\Delta \mathrm{V}_{3}=$ $\qquad$
$\qquad$
5. Fill in the blanks in the following diagram. Show appropriate units.


RTot $=$
ITot $=$ $\qquad$

$\qquad$
$\Delta \mathrm{V}_{3}=\quad \mathrm{I} 3=$ $\qquad$
$\mathrm{R}_{1}=8.6 \Omega \quad \mathrm{R}_{2}=5.4 \Omega \quad \mathrm{R}_{3}=9.2 \Omega$
6. Fill in the blanks in the following diagram. Show appropriate units.


RTot=
I Tot $=$ $\qquad$
$\qquad$
$\Delta \mathrm{V}_{2}=\square \quad \mathrm{I}_{2}=\square$
$\qquad$
$\mathrm{V}_{\text {Tot }}=110 \mathrm{~V}$
$R 1=8.6 \Omega$
$\mathrm{R}_{2}=5.4 \Omega$
$\mathrm{R} 3=9.2 \Omega$

