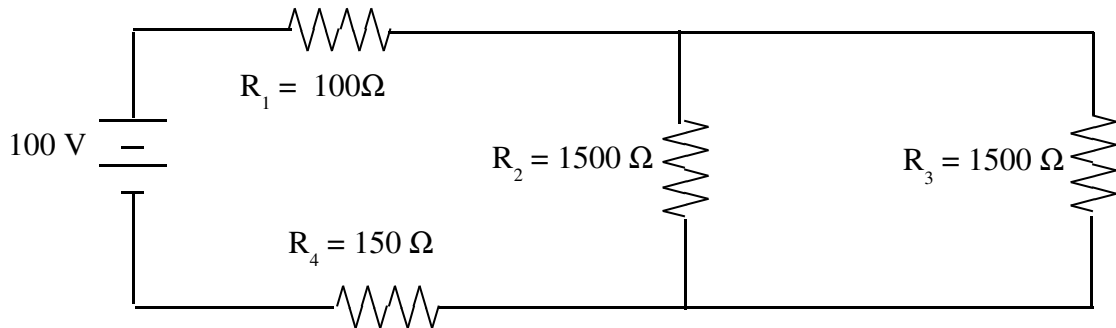


Physics Combination Circuits Worksheet

Section 1 – Complex Circuits (Networks)

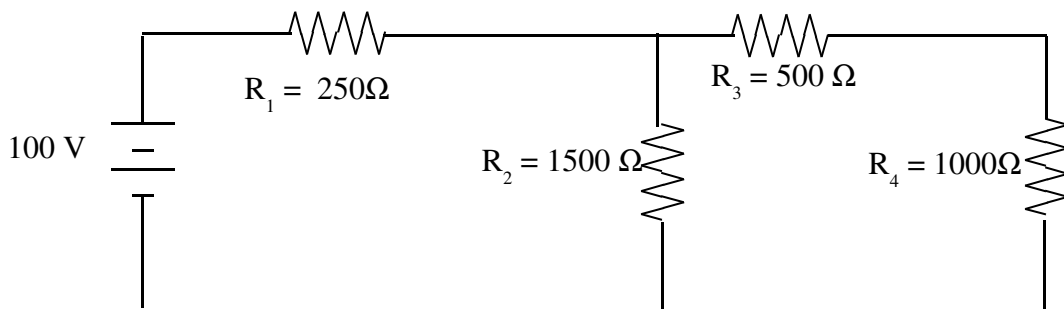
Find all values for the following circuits.

1.



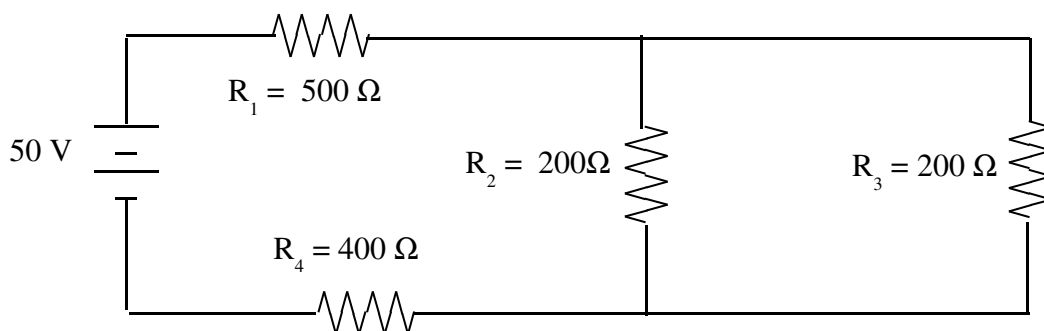
$$\begin{array}{cccccc}
 V_T = \underline{\hspace{1cm}} & V_1 = \underline{\hspace{1cm}} & V_2 = \underline{\hspace{1cm}} & V_3 = \underline{\hspace{1cm}} & V_4 = \underline{\hspace{1cm}} \\
 I_T = \underline{\hspace{1cm}} & I_1 = \underline{\hspace{1cm}} & I_2 = \underline{\hspace{1cm}} & I_3 = \underline{\hspace{1cm}} & I_4 = \underline{\hspace{1cm}} \\
 R_T = \underline{\hspace{1cm}} & R_1 = \underline{\hspace{1cm}} & R_2 = \underline{\hspace{1cm}} & R_3 = \underline{\hspace{1cm}} & R_4 = \underline{\hspace{1cm}}
 \end{array}$$

2.



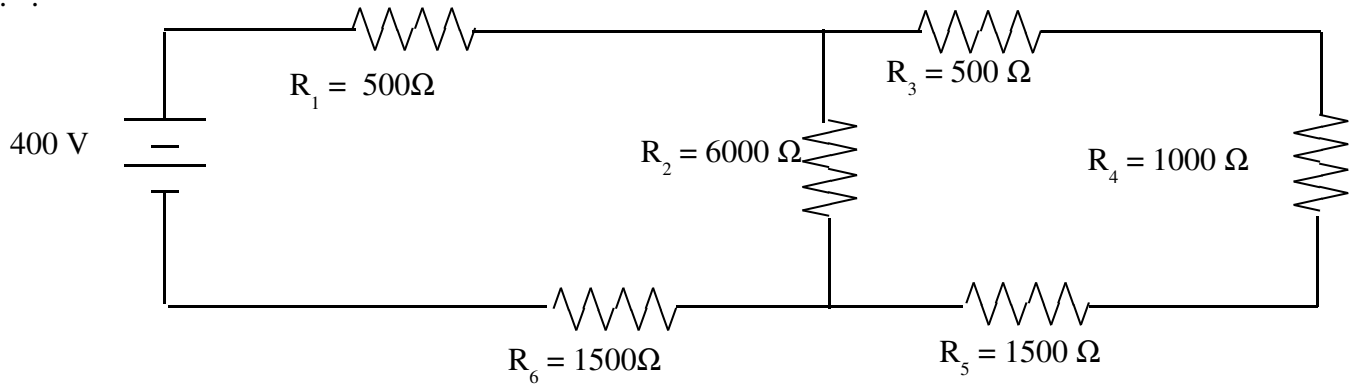
$$\begin{array}{cccccc}
 V_T = \underline{\hspace{1cm}} & V_1 = \underline{\hspace{1cm}} & V_2 = \underline{\hspace{1cm}} & V_3 = \underline{\hspace{1cm}} & V_4 = \underline{\hspace{1cm}} \\
 I_T = \underline{\hspace{1cm}} & I_1 = \underline{\hspace{1cm}} & I_2 = \underline{\hspace{1cm}} & I_3 = \underline{\hspace{1cm}} & I_4 = \underline{\hspace{1cm}} \\
 R_T = \underline{\hspace{1cm}} & R_1 = \underline{\hspace{1cm}} & R_2 = \underline{\hspace{1cm}} & R_3 = \underline{\hspace{1cm}} & R_4 = \underline{\hspace{1cm}}
 \end{array}$$

3.



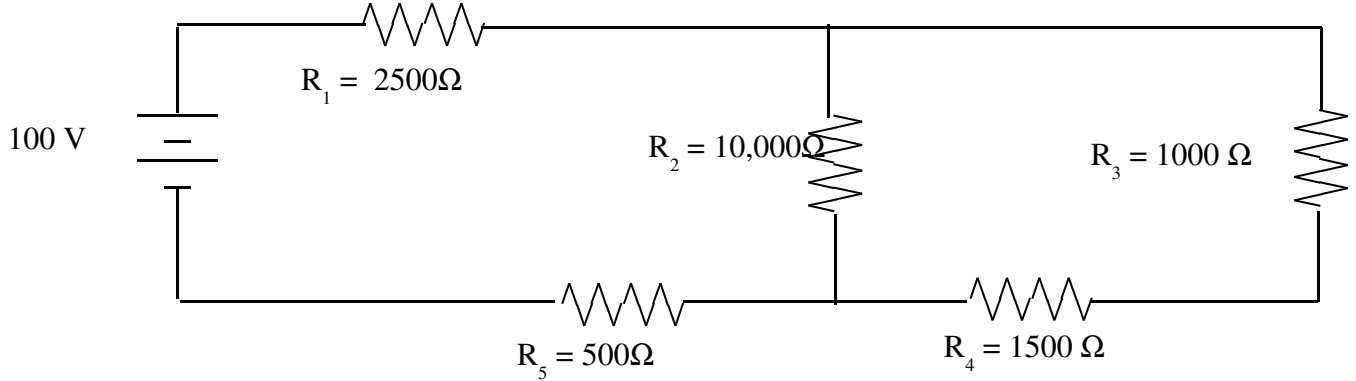
$$\begin{array}{cccccc}
 V_T = \underline{\hspace{1cm}} & V_1 = \underline{\hspace{1cm}} & V_2 = \underline{\hspace{1cm}} & V_3 = \underline{\hspace{1cm}} & V_4 = \underline{\hspace{1cm}} \\
 I_T = \underline{\hspace{1cm}} & I_1 = \underline{\hspace{1cm}} & I_2 = \underline{\hspace{1cm}} & I_3 = \underline{\hspace{1cm}} & I_4 = \underline{\hspace{1cm}} \\
 R_T = \underline{\hspace{1cm}} & R_1 = \underline{\hspace{1cm}} & R_2 = \underline{\hspace{1cm}} & R_3 = \underline{\hspace{1cm}} & R_4 = \underline{\hspace{1cm}}
 \end{array}$$

4.



$V_T = \underline{\hspace{2cm}}$ $V_1 = \underline{\hspace{2cm}}$ $V_2 = \underline{\hspace{2cm}}$ $V_3 = \underline{\hspace{2cm}}$ $V_4 = \underline{\hspace{2cm}}$ $V_5 = \underline{\hspace{2cm}}$ $V_6 = \underline{\hspace{2cm}}$
 $I_T = \underline{\hspace{2cm}}$ $I_1 = \underline{\hspace{2cm}}$ $I_2 = \underline{\hspace{2cm}}$ $I_3 = \underline{\hspace{2cm}}$ $I_4 = \underline{\hspace{2cm}}$ $I_5 = \underline{\hspace{2cm}}$ $I_6 = \underline{\hspace{2cm}}$
 $R_T = \underline{\hspace{2cm}}$ $R_1 = \underline{\hspace{2cm}}$ $R_2 = \underline{\hspace{2cm}}$ $R_3 = \underline{\hspace{2cm}}$ $R_4 = \underline{\hspace{2cm}}$ $R_5 = \underline{\hspace{2cm}}$ $R_6 = \underline{\hspace{2cm}}$

5.



$V_T = \underline{\hspace{2cm}}$ $V_1 = \underline{\hspace{2cm}}$ $V_2 = \underline{\hspace{2cm}}$ $V_3 = \underline{\hspace{2cm}}$ $V_4 = \underline{\hspace{2cm}}$ $V_5 = \underline{\hspace{2cm}}$
 $I_T = \underline{\hspace{2cm}}$ $I_1 = \underline{\hspace{2cm}}$ $I_2 = \underline{\hspace{2cm}}$ $I_3 = \underline{\hspace{2cm}}$ $I_4 = \underline{\hspace{2cm}}$ $I_5 = \underline{\hspace{2cm}}$
 $R_T = \underline{\hspace{2cm}}$ $R_1 = \underline{\hspace{2cm}}$ $R_2 = \underline{\hspace{2cm}}$ $R_3 = \underline{\hspace{2cm}}$ $R_4 = \underline{\hspace{2cm}}$ $R_5 = \underline{\hspace{2cm}}$