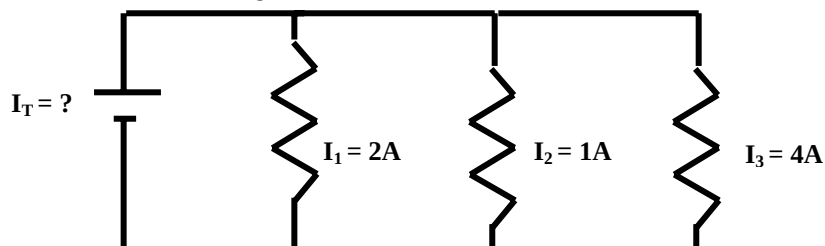


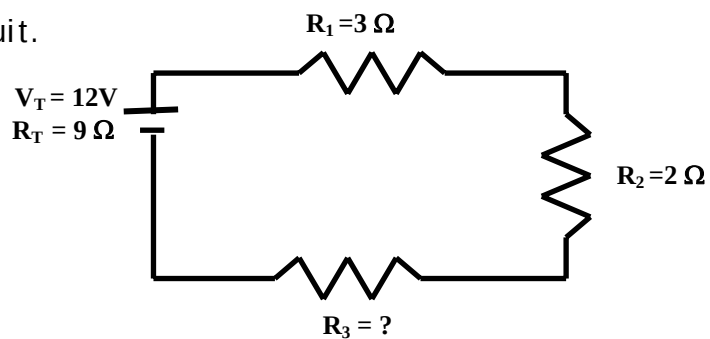
CIRCUIT MATH

Solve the following problems showing all work.

1. Find I_T for the following circuit.

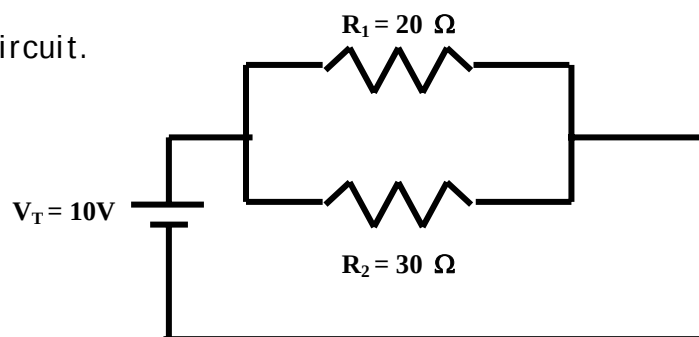


2. Complete the table for this circuit.



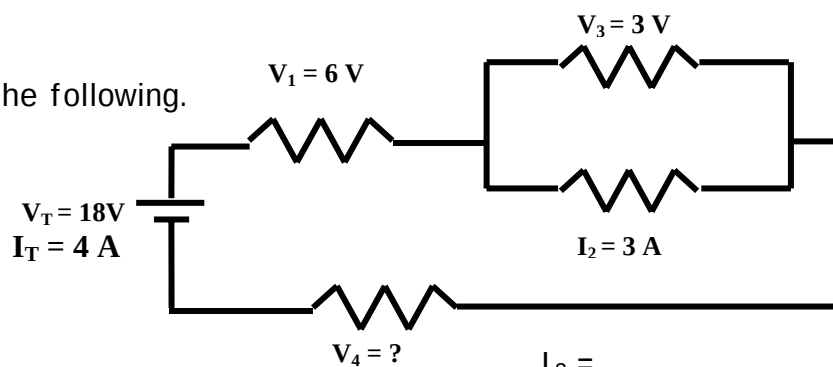
$V_T = 12\text{ V}$	$V_1 =$	$V_2 =$	$V_3 =$
$R_T = 9\ \Omega$	$R_1 = 3\ \Omega$	$R_2 = 2\ \Omega$	$R_3 =$
$I_T =$	$I_1 =$	$I_2 =$	$I_3 =$

3. Complete the table for this circuit.



$V_T = 10\text{ V}$	$V_1 =$	$V_2 =$
$R_T =$	$R_1 = 20\ \Omega$	$R_2 = 30\ \Omega$
$I_T =$	$I_1 =$	$I_2 =$

4. Find the following.



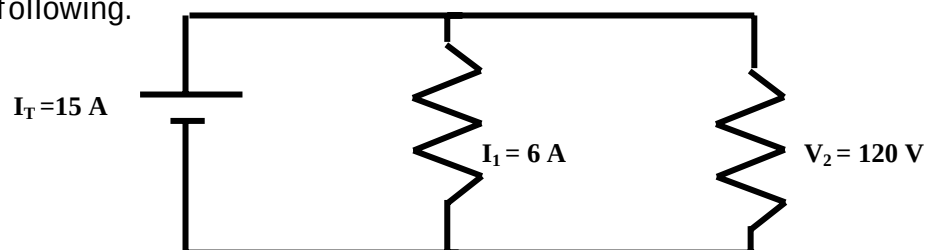
$$V_2 = \underline{\hspace{2cm}}$$

$$I_3 = \underline{\hspace{2cm}}$$

$$V_4 = \underline{\hspace{2cm}}$$

$$I_4 = \underline{\hspace{2cm}}$$

5. Find the following.



$$V_T = \underline{\hspace{2cm}}$$

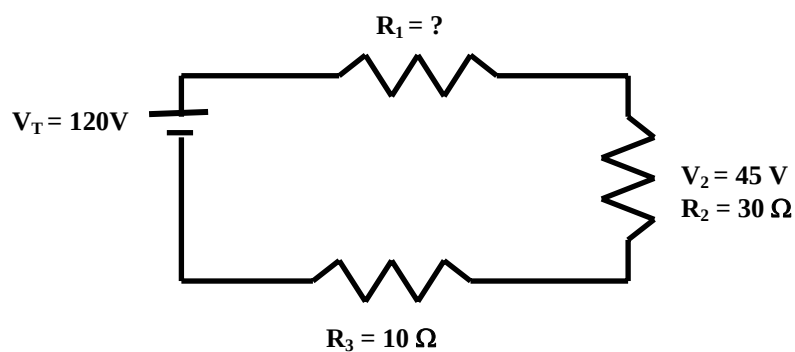
$$R_1 = \underline{\hspace{2cm}}$$

$$V_1 = \underline{\hspace{2cm}}$$

$$R_2 = \underline{\hspace{2cm}}$$

$$I_2 = \underline{\hspace{2cm}}$$

6. Find the following.



$$V_3 = \underline{\hspace{2cm}}$$

$$I_3 = \underline{\hspace{2cm}}$$

$$V_1 = \underline{\hspace{2cm}}$$

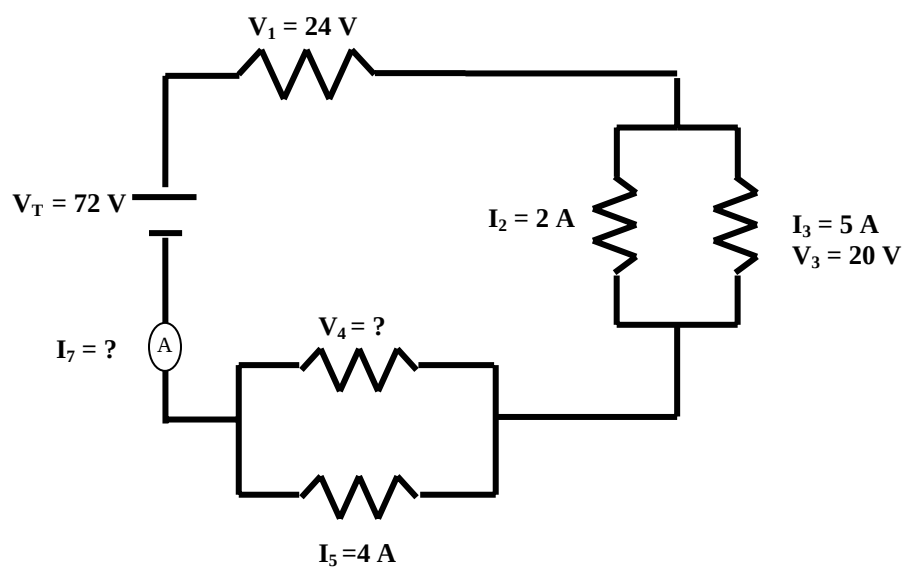
$$R_1 = \underline{\hspace{2cm}}$$

$$I_1 = \underline{\hspace{2cm}}$$

$$R_T = \underline{\hspace{2cm}}$$

$$I_2 = \underline{\hspace{2cm}}$$

7. Find the following.



$$I_1 = \underline{\hspace{2cm}}$$

$$V_2 = \underline{\hspace{2cm}}$$

$$V_4 = \underline{\hspace{2cm}}$$

$$V_5 = \underline{\hspace{2cm}}$$

$$I_4 = \underline{\hspace{2cm}}$$

$$I_7 = \underline{\hspace{2cm}}$$