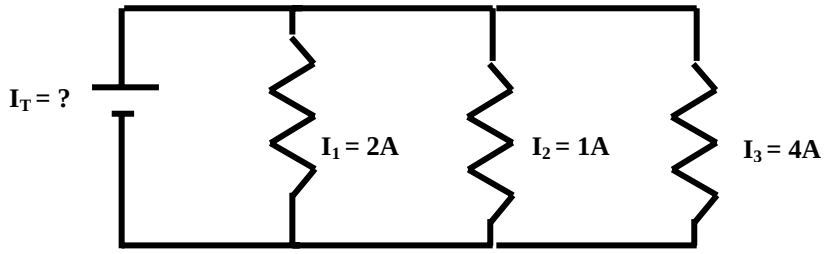
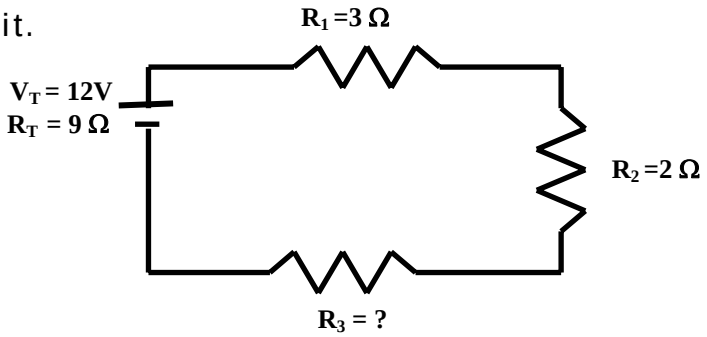
CIRCUIT MATH

Solve the following problems showing all work.

1. Find I_T for the following circuit.

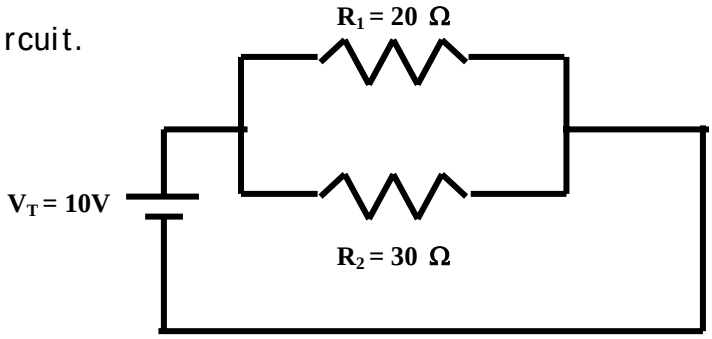


2. Complete the table for this circuit.



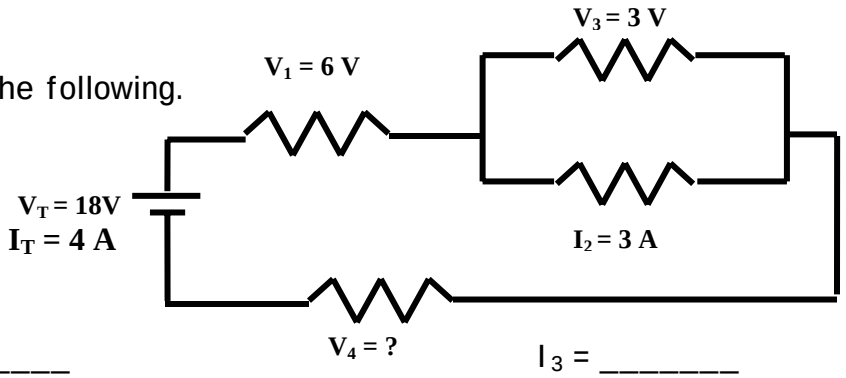
V_T = 12 V	V_1 =	V_2 =	V_3 =
R_T = 9 Ω	R_1 = 3 Ω	R_2 = 2 Ω	R_3 =
I_T =	I_1 =	I_2 =	I_3 =

3. Complete the table for this circuit.



V_T = 10 V	V_1 =	V_2 =
R_T =	R_1 = 20 Ω	R_2 = 30 Ω
I_T =	I_1 =	I_2 =

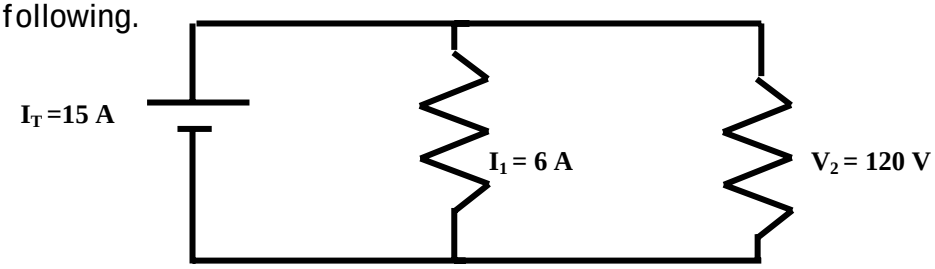
4. Find the following.



V_2 = _____ I_3 = _____

V_4 = _____ I_4 = _____

5. Find the following.

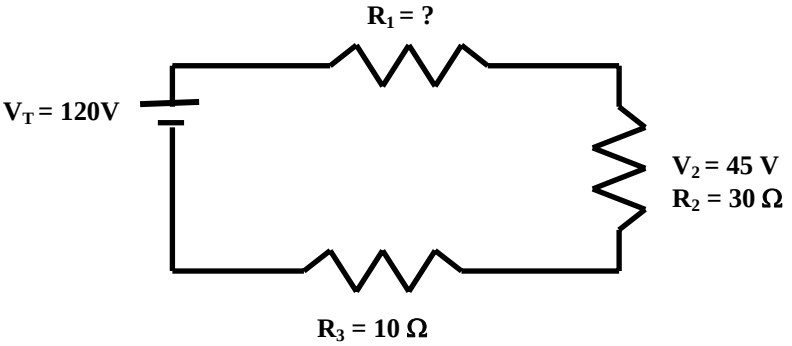


V_T = _____ R_1 = _____

V_1 = _____ R_2 = _____

I_2 = _____

6. Find the following.



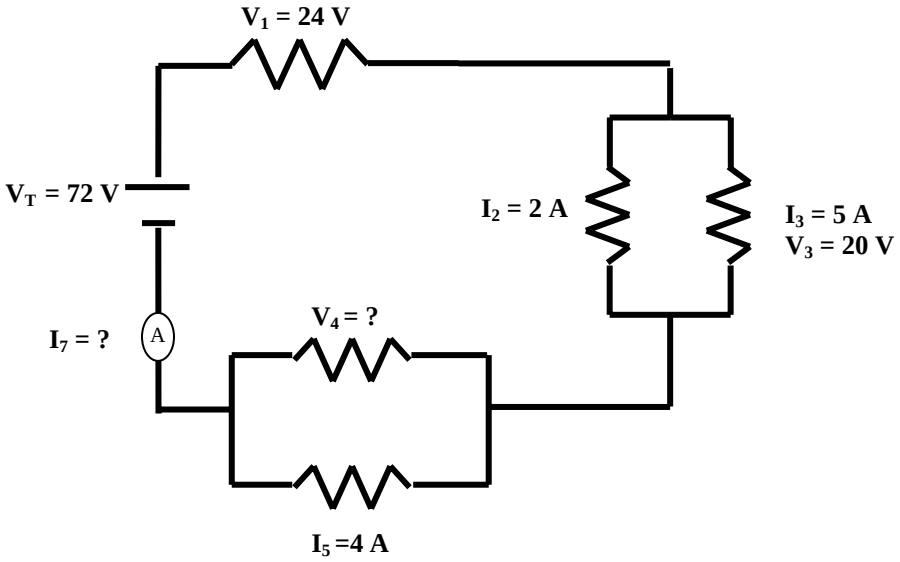
V_3 = _____ I_3 = _____

V_1 = _____ R_1 = _____

I_1 = _____ R_T = _____

I_2 = _____

7. Find the following.



I_1 = _____ V_5 = _____

V_2 = _____ I_4 = _____

V_4 = _____ I_7 = _____