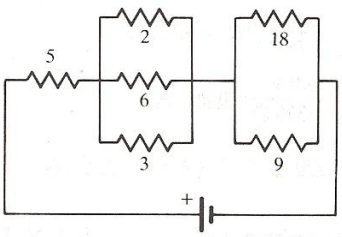
1. 6 resistors are connected to the 9 V battery as shown.



a. Find total resistance of this circuit.

b. Find current through resistor 5 Ω

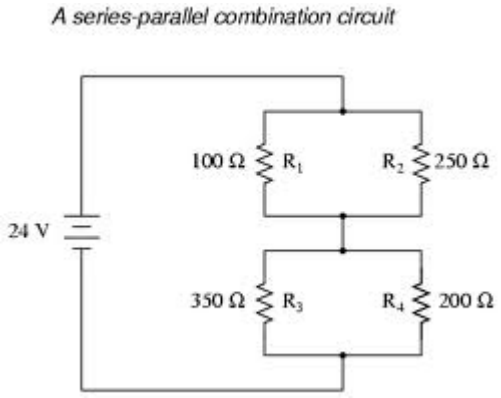
c. Find voltage drop across 2 Ω resistor

d. Find current through 6 Ω resistor.

d. Find voltage drop across 9 Ω resistor.

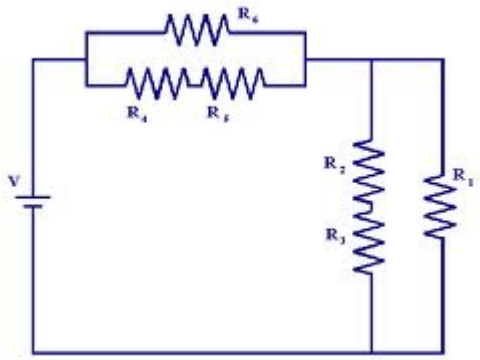
e. Find current through 18 Ω resistor.

2. Find current in all resistors and find voltage across each resistor.

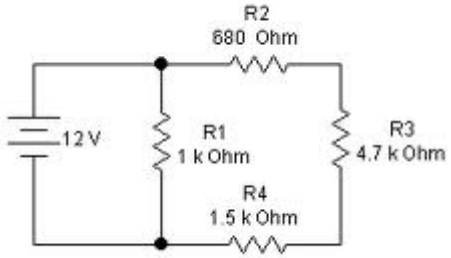


3. Find current in all resistors and find voltage across each resistor. Battery provides 12V.

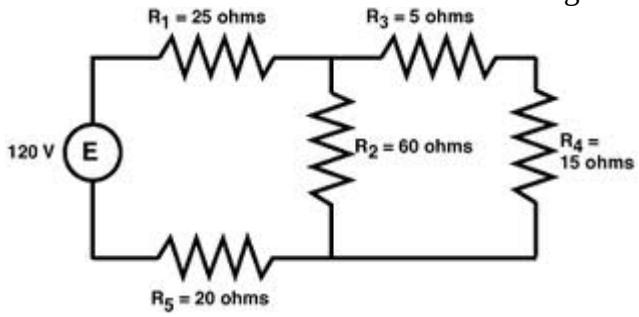
$R_1 = 50Ω,\ R_2 = 200Ω,\ R_3 = 100Ω,\ R_4 = 50Ω,\ R_5 = 150Ω,\ R_6 = 100Ω$



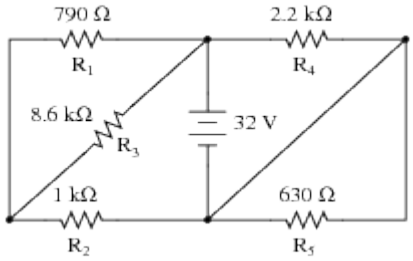
4. Find current in all resistors and find voltage across each resistor.



5. Find current in all resistors and find voltage across each resistor.

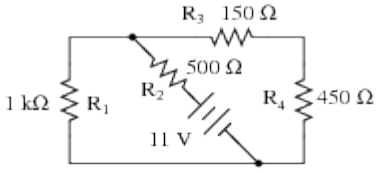


6. Complete the table of values for this circuit:



	R_1	R_2	R_3	R_4	R_5	Total
V						
I						
R	790 Ω	1 kΩ	8.6 kΩ	2.2 kΩ	630 Ω	
P						

7. Complete the table of values for this circuit:



	R_1	R_2	R_3	R_4	Total
V					11 V
I					
R	1 kΩ	500 Ω	150 Ω	450 Ω	
P					