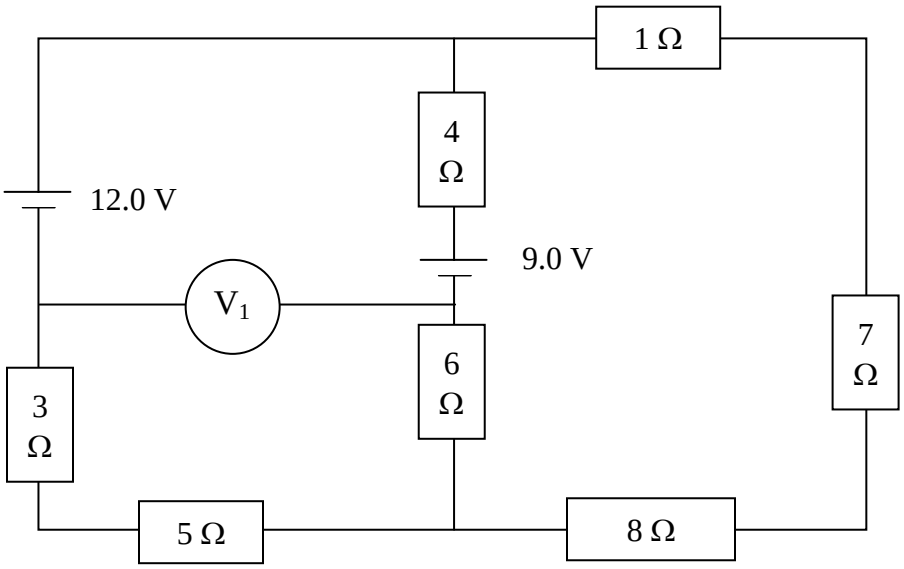
Group Work for 18L Name _____

1



Find the current and direction (up or down) through:

3 Ω_____

6 Ω_____

7 Ω_____

Find the voltage across:

6 Ω_____

8 Ω_____

Find power dissipated by:

1 Ω_____

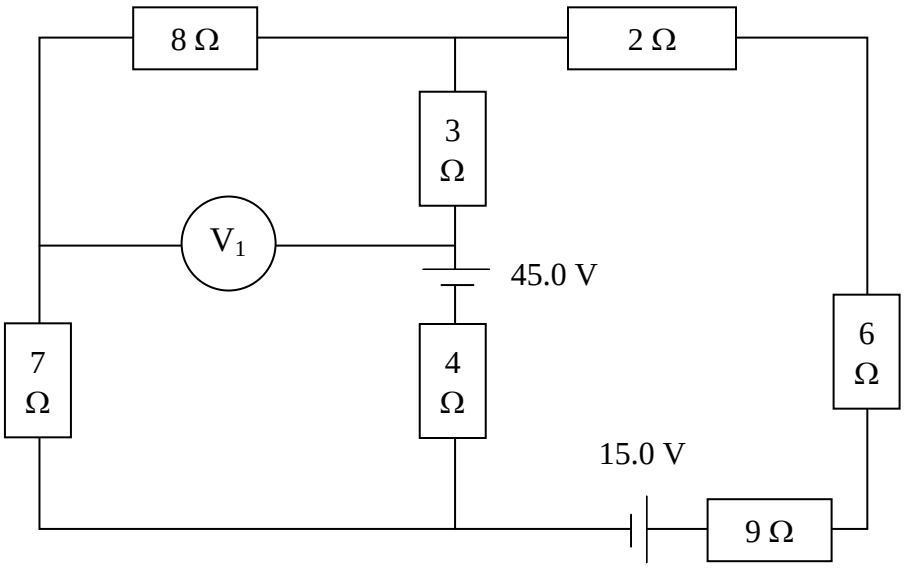
4 Ω_____

Find:

$|V_1|$ =_____

I	3	0.457	A	Up
I	6	0.0652	A	Up
I	7	0.522	A	Down
V	6	0.391	V	
V	8	4.174	V	
P	1	0.272	W	
P	4	0.0170	W	
	|V1|	3.2609	V	

2



Find the current and direction (up, down) through:

7 Ω_____

4 Ω_____

6 Ω_____

Find the voltage across:

8 Ω_____

2 Ω_____

Find power dissipated by:

3 Ω_____

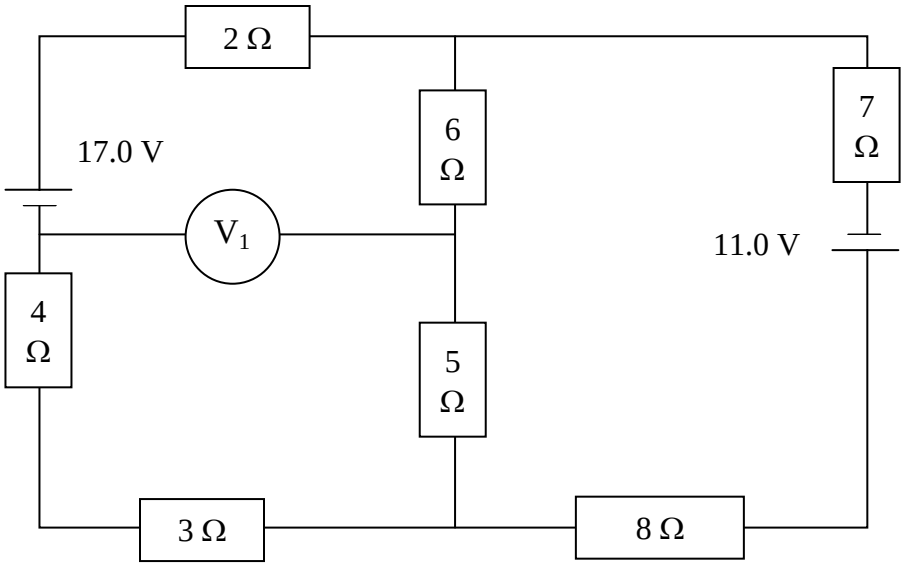
9 Ω_____

Find:

$|V_1|$ =_____

I	7	1.82	A	Down
I	4	2.54	A	Up
I	6	0.720	A	Down
V	8	14.5	V	
V	2	1.44	V	
P	3	19.3	W	
P	9	4.67	W	
	|V1|	22.1	V	

3



Find the current and direction (up or down) through:

4 Ω_____

5 Ω_____

7 Ω_____

Find the voltage across:

6 Ω_____

8 Ω_____

Find power dissipated by:

2 Ω_____

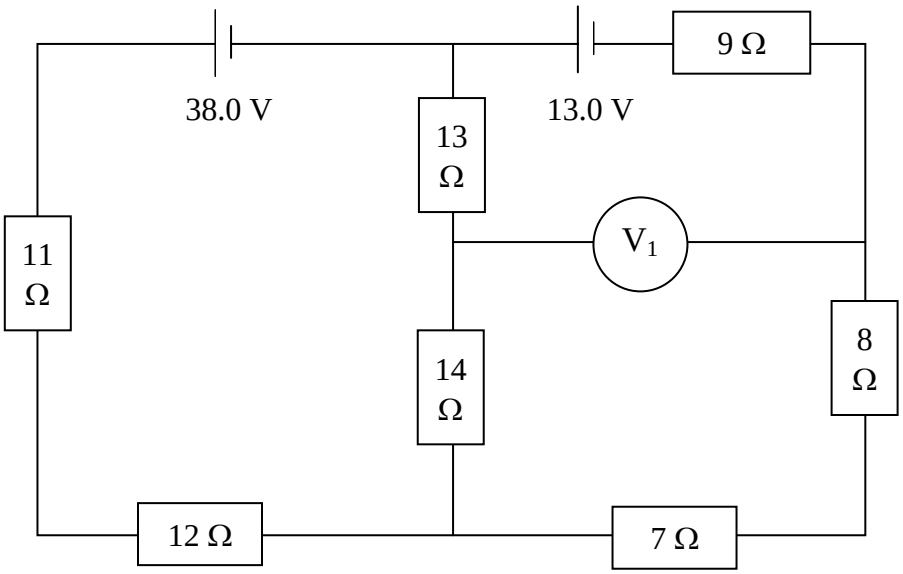
7 Ω_____

Find:

$|V_1|$ =_____

I	4	1.41	A	Up
I	5	0.391	A	Down
I	7	1.02	A	Down
V	6	2.35	V	
V	8	8.16	V	
P	2	3.98	W	
P	7	7.28	W	
	|V1|	11.832	V	

4



Find the current and direction (up, down, left, right) through:

11 Ω_____

14 Ω_____

8 Ω_____

Find the voltage across:

13 Ω_____

9 Ω_____

Find power dissipated by:

12 Ω_____

7 Ω_____

Find:

$|V_1|$ =_____

I	11	1.26	A	Down
I	14	0.337	A	Up
I	8	0.920	A	Up
V	13	4.38	V	
V	9	8.28	V	
P	12	18.96	W	
P	7	5.93	W	
	|V1|	9.09	V	