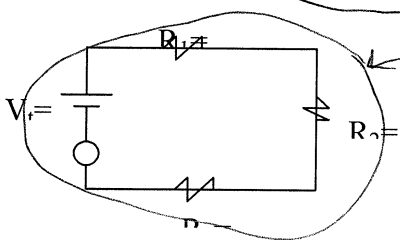


Circuit Review

1. $26 \times 10^5 \pm 10\%$
2. $Q = \text{Charge}$, $N = \text{number of electrons}$, and $e = -1.6 \times 10^{-19}$
3. $32 \times 10^{10} \text{ C}$
4. $V = \text{Voltage}$, $E = \text{Energy}$, and $Q = \text{Charge}$
5. 4 Volts
6. $I = \text{Current}$, $Q = \text{Charge}$, and $t = \text{time}$
7. 800 C
8. $2 \times 10^8 \text{ A}$
9. A complete circuit is when both + & - end of a power supply are connected through a resistor.
10. $P = \text{power}$, $V = \text{voltage}$, and $I = \text{current}$
11. 1500W
12. \$34.20
13. \$14.25
14. $Q = Ne$
15. $-1.6 \times 10^{-19} \text{ C}$
16. $V = E / Q$
17. $I = Q/t$
18. $V = IR$
19. 10Ω
20. 500 V
21. 24Ω
22. 8A
23. 10A
24. current goes up
25. current is quadrupled
26. .833A
27. Current goes up
28. Fill in the Chart:

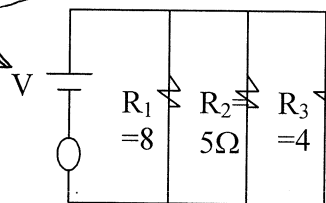
	Series	Parallel
$R_t =$	$= R_1 + R_2 + R_3 + \dots$	$\frac{1}{R_T} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + \dots$
$V_t =$	$= V_1 + V_2 + V_3 + \dots$	$= V_1 = V_2 = V_3 = \dots$
$I_t =$	$= I_1 = I_2 = I_3$	$= I_1 + I_2 + I_3 + \dots$

29. Which of the following is a parallel circuit?



Series

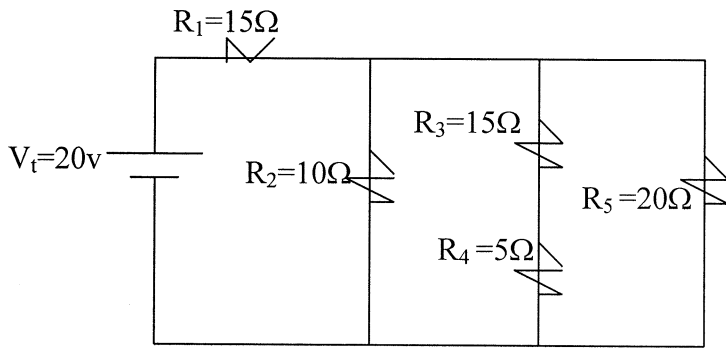
30. Which of the following is a series circuit?



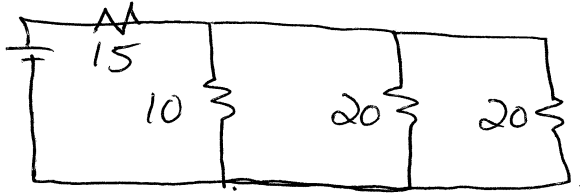
parallel

Fill in the table

35.

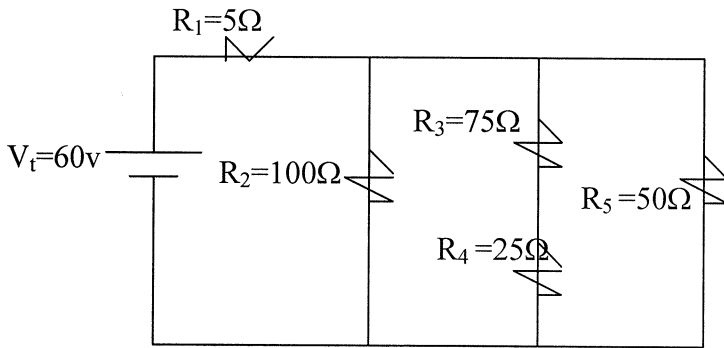


R_T	20Ω	V_T	20V	I_T	1A
R_1	15	V_1	15V	I_1	1A
R_2	10	V_2	5V	I_2	0.5
R_3	15	V_3	12.5V	I_3	0.25A
R_4	5	V_4	12.5V	I_4	0.25A
R_5	20	V_5	5V	I_5	0.25

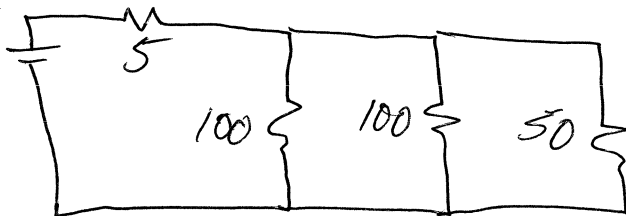


Fill in the table

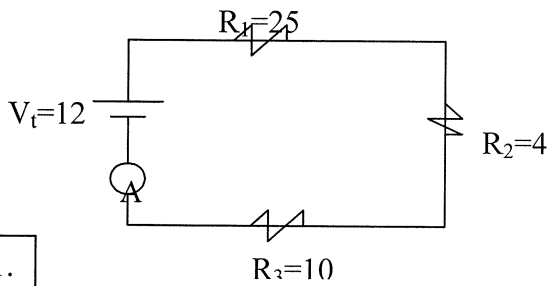
36.



R_T	30	V_T	60	I_T	2A
R_1	5	V_1	10V	I_1	2A
R_2	100	V_2	50V	I_2	0.5
R_3	75	V_3	37.5	I_3	0.5
R_4	25	V_4	12.5	I_4	0.5
R_5	50	V_5	50V	I_5	1A



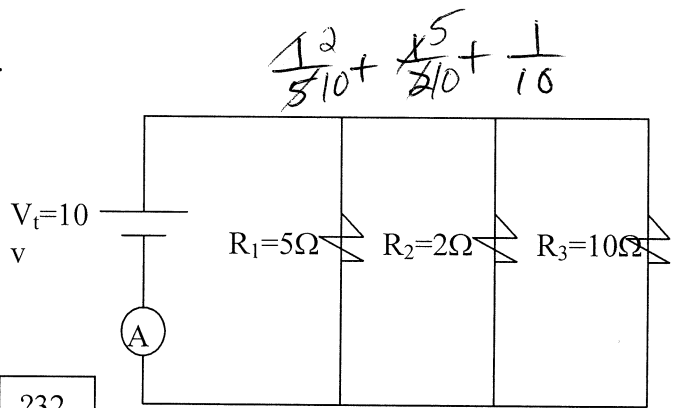
Find the total resistance of the circuits shown below.



31.

Fill in the tables for the above circuits.

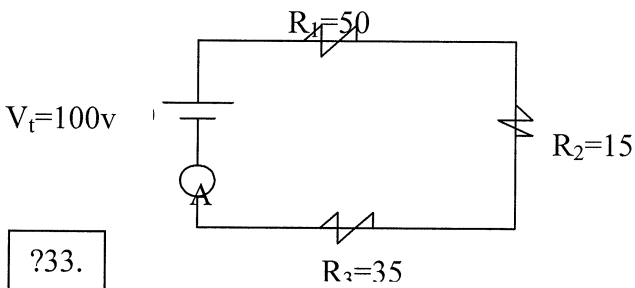
R_T	39	V_T	12v	I_T	0.3A
R_1	25	V_1	7.5	I_1	0.3
R_2	4	V_2	1.2	I_2	0.3
R_3	10	V_3	3	I_3	0.3



32.

R_T	1.25	V_T	10v	I_T	8
R_1	5	V_1	10v	I_1	2
R_2	2	V_2	10v	I_2	5
R_3	10	V_3	10v	I_3	1

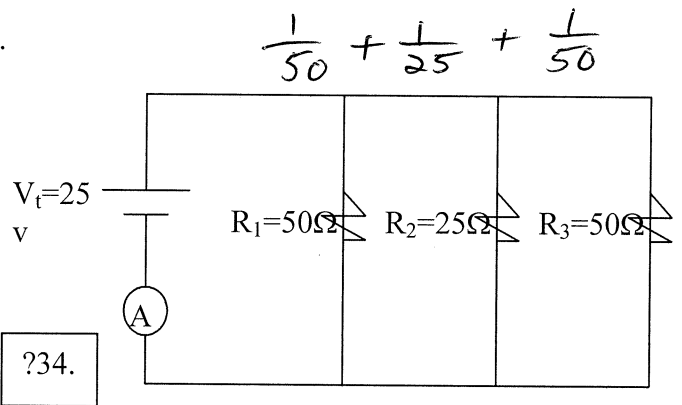
Find the total resistance of the circuits shown below.



33.

Fill in the tables for the above circuits.

R_T	100v	V_T	100v	I_T	1A
R_1	50	V_1	50	I_1	1A
R_2	15	V_2	15	I_2	1A
R_3	35	V_3	35	I_3	1A



34.

R_T	12.5	V_T	25	I_T	2
R_1	50	V_1	25	I_1	0.5
R_2	25	V_2	25	I_2	1
R_3	50	V_3	25	I_3	0.5