

Series
 $R_T = 4 + 9$
 $R_T = 13$

Parallel
 $\frac{1}{R_T} = \frac{1}{6} + \frac{1}{6}$
 $\frac{1}{R_T} = \frac{1}{3}$
 $R_T = 3$

Parallel
 $\frac{1}{R_T} = \frac{1}{6} + \frac{1}{6} + \frac{1}{6}$
 $\frac{1}{R_T} = \frac{1}{2}$
 $R_T = 2$

Parallel
 $\frac{1}{R_T} = \frac{1}{2} + \frac{1}{2}$
 $R_T = 1$

$R_T = 12 \Omega$

Voltage at

A	12V
B	10V
C	9.5V
D	9.5V
E	8V
F	8V
G	3.5V
H	4V
I	3V
J	3V
K	3V
L	0V
M	0V

$E = IR$
 $= (1)(2)$
 $= 2$
 $E_{at B} = 12 - 2$
 $= 10V$

$E = IR$
 $= \frac{1}{2}(4)$
 $= 2$
 $E_{at F} = 10 - 2 = 8$

$E = IR$
 $= \frac{1}{2}(9)$
 $= 4.5$
 $E_{at G} = 8V - 4.5V$
 $= 3.5V$

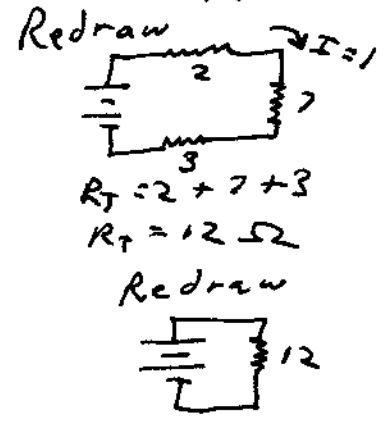
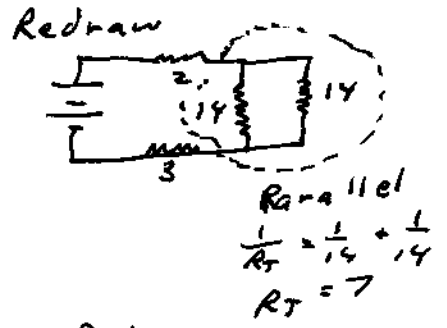
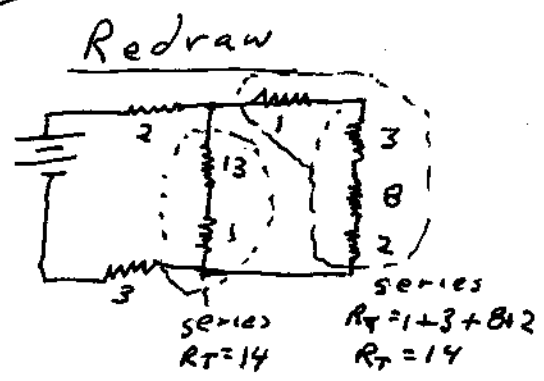
$E = IR$
 $= \frac{1}{2}(1) = \frac{1}{2}$
 $E_{at K} = 3.5 - \frac{1}{2} = 3$

$E = IR$
 $= \frac{1}{2}(1)$
 $= \frac{1}{2}V$
 $E_{at C+D} = 10 - \frac{1}{2}$
 $= 9.5$

$E = IR$
 $= \frac{1}{2}(3)$
 $= \frac{3}{2}$
 $E_{at E} = 9.5 - 1.5$
 $= 8V$

$E = IR$
 $= \frac{1}{2}(8) = 4$
 $E_{at H} = 8V - 4V = 4V$

$E = IR$
 $= \frac{1}{2}(2) = 1$
 $E_{at I} = 4V - 1V$
 $= 3V$



$E = IR$
 $I = \frac{E}{R} = \frac{12V}{12\Omega} = 1amp$