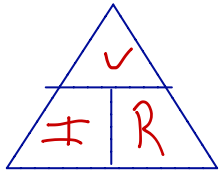


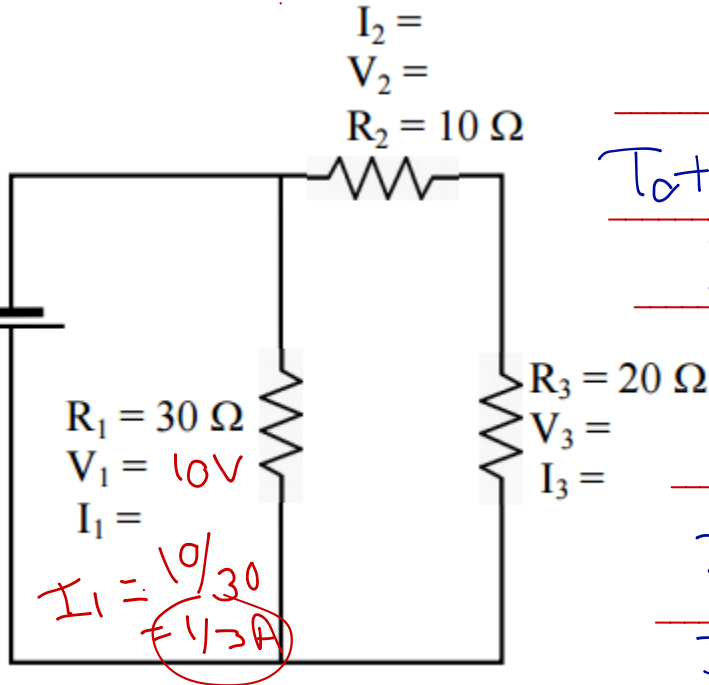
Solve the circuits shown below.



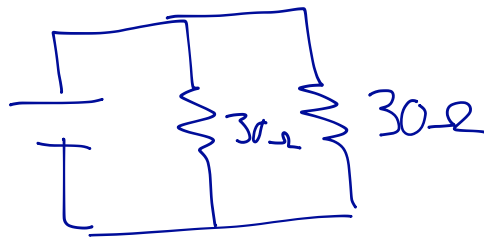
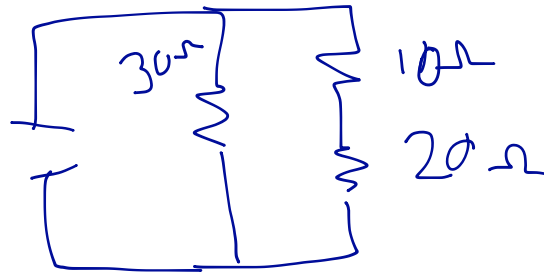
$V_b = 10\text{ V}$
 $R_T = 15\ \Omega$
 $I_b = \frac{2}{3}\text{ A}$

$I = \frac{V}{R}$
 $= \frac{10}{15}$

$= 0.67\text{ A}$
 OR $\frac{2}{3}\text{ A}$



	V	I	R
Total	10	$\frac{2}{3}$	15
1	10	$\frac{1}{3}$	30
2	$3\frac{1}{3}$	$\frac{1}{3}$	10
3	$6\frac{2}{3}$	$\frac{1}{3}$	20

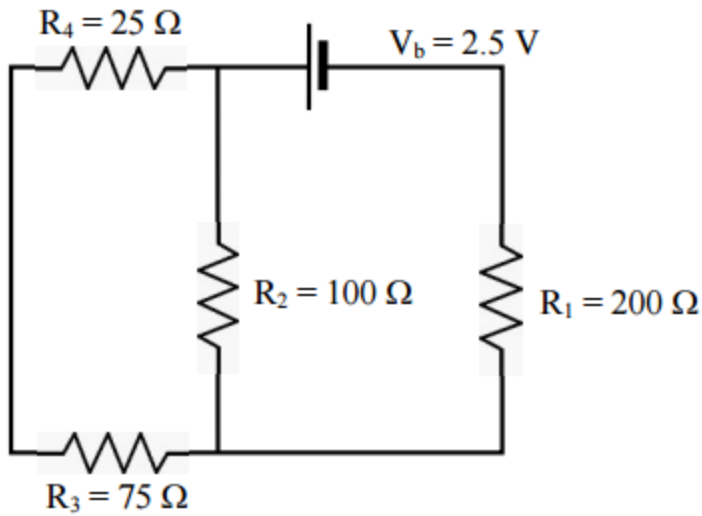


$\frac{1}{R_T} = \frac{1}{30} + \frac{1}{30}$

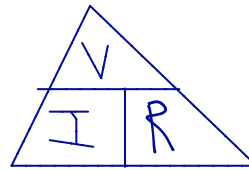
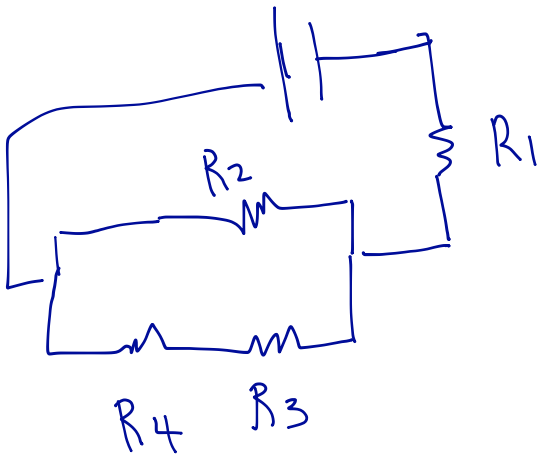
$\frac{1}{R_T} = \frac{2}{30}$

$R_T = \frac{30}{2}$

$R_T = 15\ \Omega$



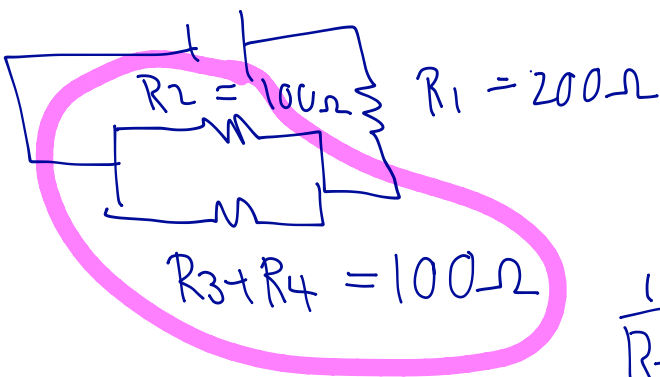
	V	I	R
T	2.5	0.01	250
1	2	0.01	200
2	0.5	0.005	100
3	0.375	0.005	75
4	0.25	0.005	25



$$I_T = \frac{2.5}{250}$$

$$I_T = \frac{1}{100}$$

$$I_T = 0.01 \text{ A}$$



$$\frac{1}{R_{eq}} = \frac{1}{100} + \frac{1}{100}$$

$$= \frac{2}{100}$$

$$R_{eq} = 50 \Omega$$

$$R_T = 200 \Omega + R_{eq}$$

$$R_T = 250 \Omega$$

