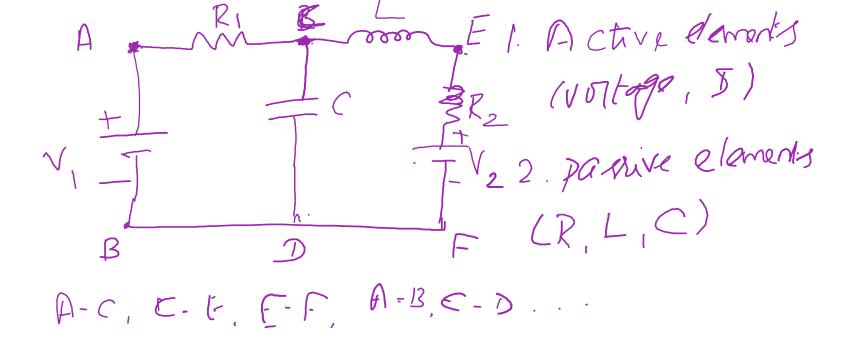
current Floctric 9:1.6×1019C Electric polential

$$G = \frac{1}{R} Sikmen V$$
 $Sikmen V$
 $Sikmen V$
 $V = IR$
 $V = IR$

W:
$$Pdt = \int_{12}^{t} Rdt = \frac{12}{12}Rt - \sqrt{1}L(I)$$

Capacitor C (F)

 $\frac{1}{2}$
 $\frac{1}{2$

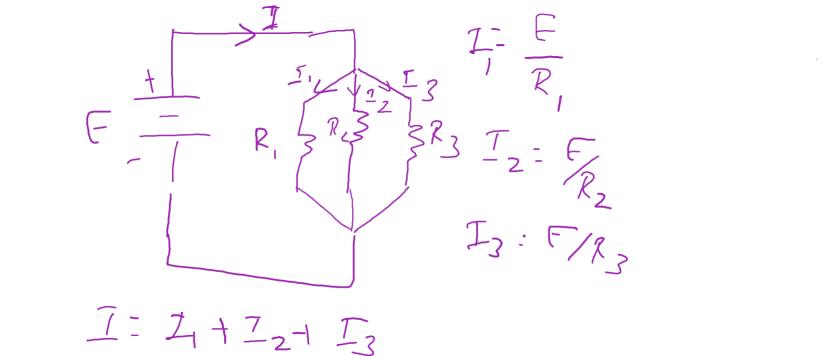


Mesh (00) Loop. ACDBA, CEF

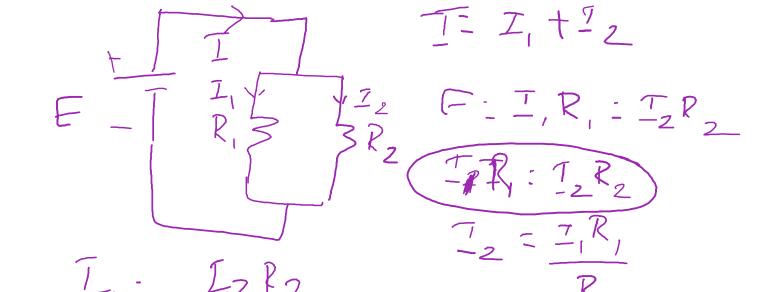
F= F, + E2+ F2 $-I(R_1+R_2+R_3)$ $E_2 - IR_2$ $E_3 - IR_3$

P: P, + P2+B3

P3: \$ R3: F3 TE



$$\frac{7}{R_{1}} = \left[-\frac{1}{R_{1}} + \frac{1}{R_{2}} + \frac{1}{R_{3}} \right] = \frac{1}{R_{2}} = \frac{1}{R_{2}} + \frac{1}{R_{2}} = \frac{1}{R$$



$$\frac{1}{R_{2}} = \frac{1}{R_{1}} + \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} = \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} = \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} = \frac{1}{R_{2}} \cdot \frac{1}{R_{2}} \cdot$$

 $R_1 + R_2$

$$T = \frac{T_{1} + T_{2}}{R_{1}}$$

$$= \frac{T_{2}R_{2} + T_{2}}{R_{1}}$$

$$= \frac{T_{2}R_{2} + T_{2}R_{1}}{R_{1}} = \frac{T_{2}(R_{1} + R_{2})}{R_{1}}$$

$$T_{2} = \frac{T_{2}R_{2} + T_{2}R_{1}}{R_{1} + R_{2}}$$

$$E = TR_1 + TR_2$$

$$= T(R_1 + R_2)$$

$$= T(R_1 + R_3)$$

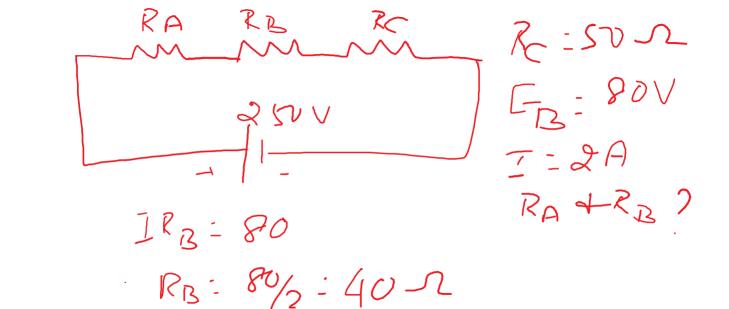
$$= T(R_1 + R_4)$$

$$= T(R_1 + R_4)$$

$$= T(R_1 + R_4)$$

$$= T$$

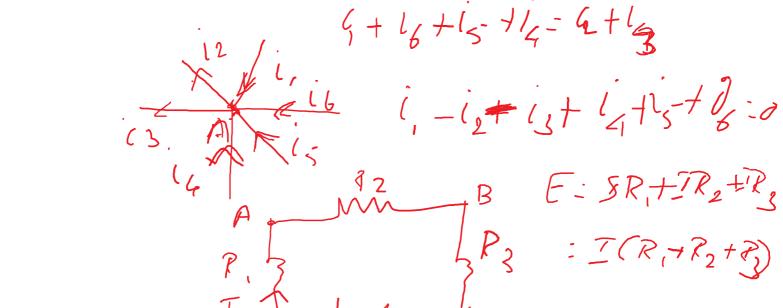
--(R,+R2) RITR2

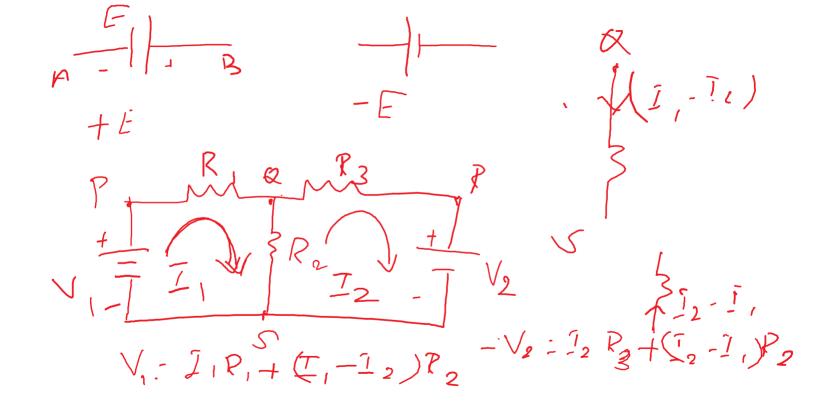


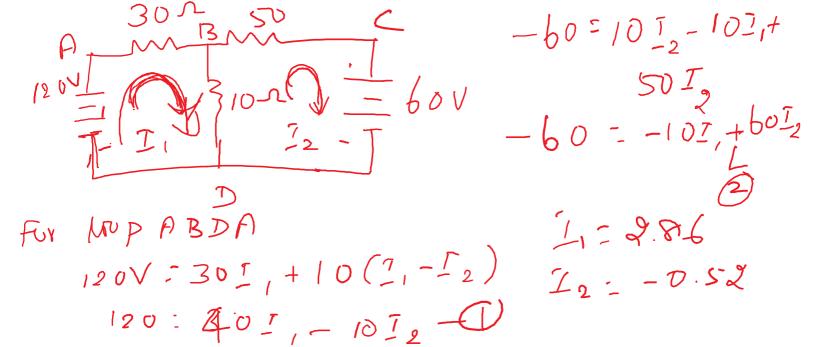
E: J(RA+RB+RC) 25UV: 2 (RA+RO+RC) Ra +4 0+80 -250

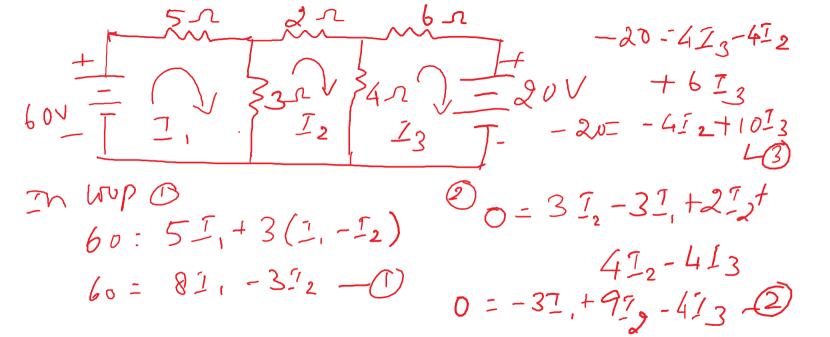
RA:351

2 mV K = 8000 100/ = 2N



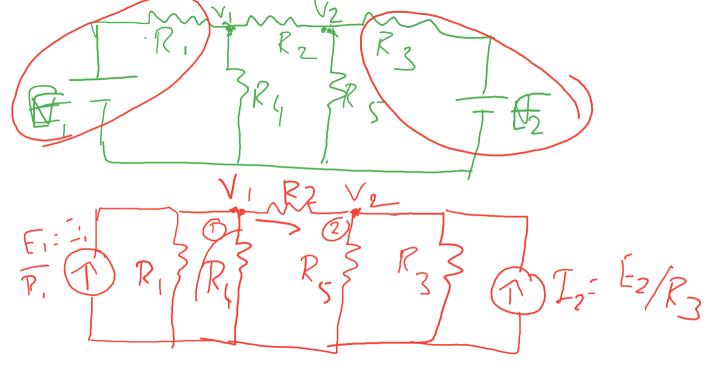


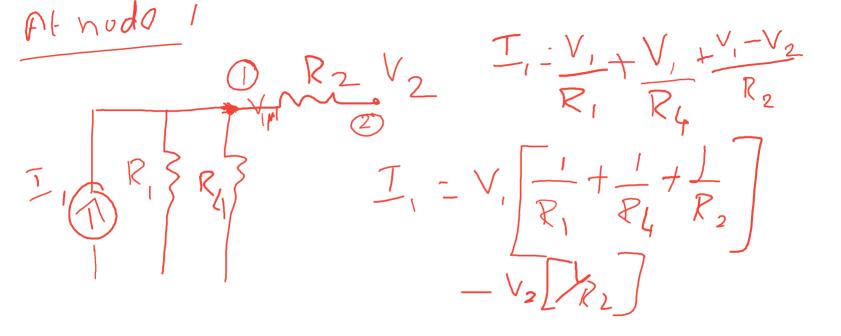


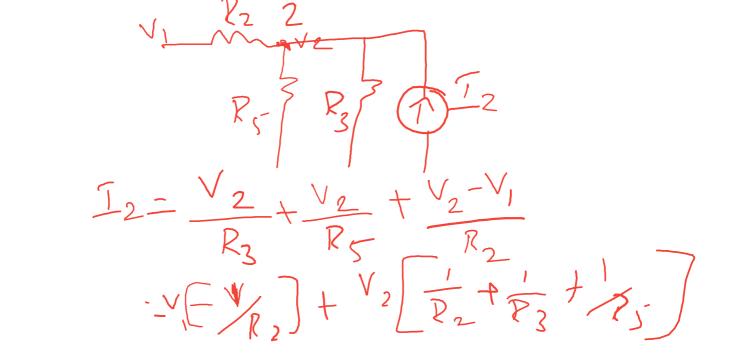


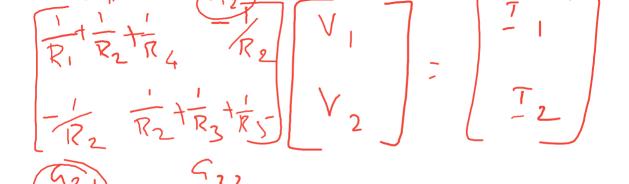
$$\begin{bmatrix} 8 & -3 & 0 \\ -3 & 9 & -4 \\ 0 & -4 & 10 \end{bmatrix} \begin{bmatrix} \frac{7}{2} \\ -\frac{7}{2} \\ -\frac{7}{3} \end{bmatrix} = \begin{bmatrix} \frac{1}{2} \\ 0 \\ -\frac{1}{2} \\ 0 \end{bmatrix} \begin{bmatrix} \frac{1}{2} \\ 0$$

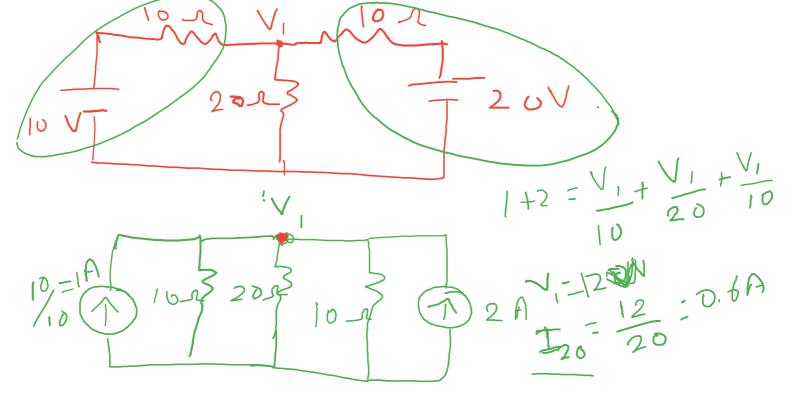
Nodal method source transformation. G_{11} $G_{12} = -VRSign$ $G_{12} = G_{21}$

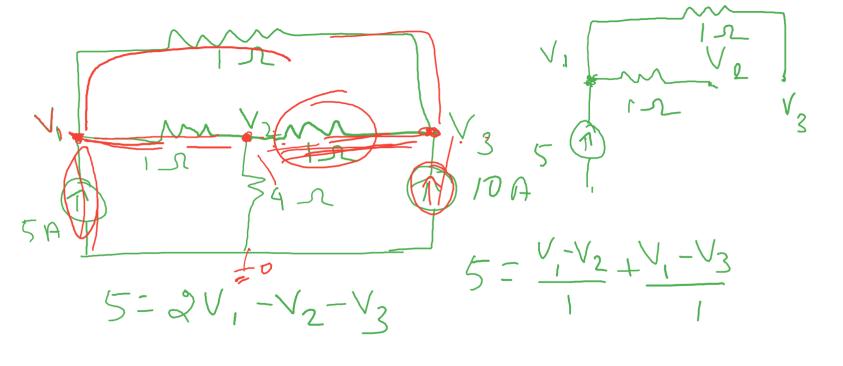


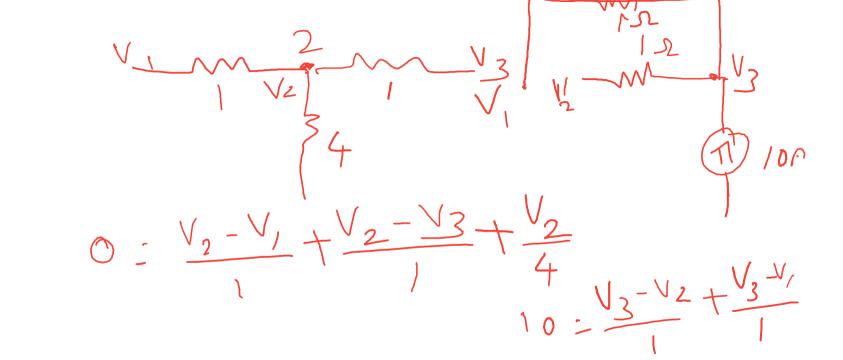




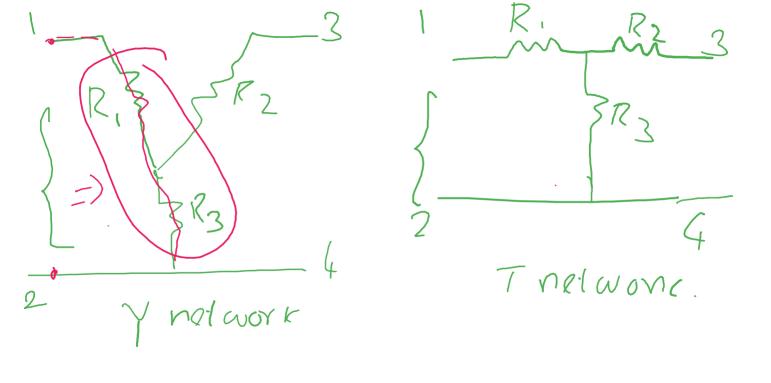


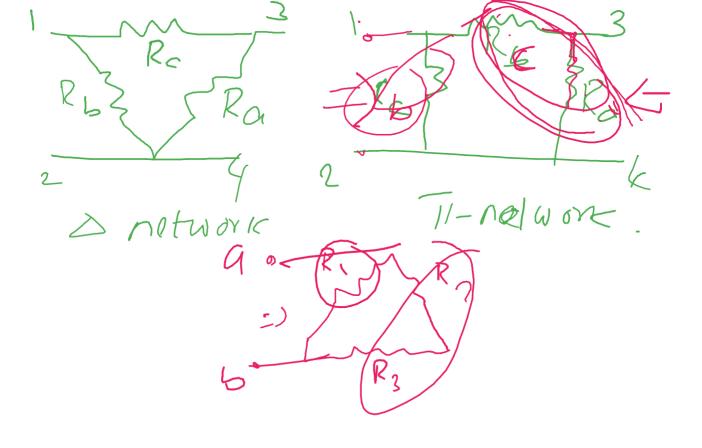




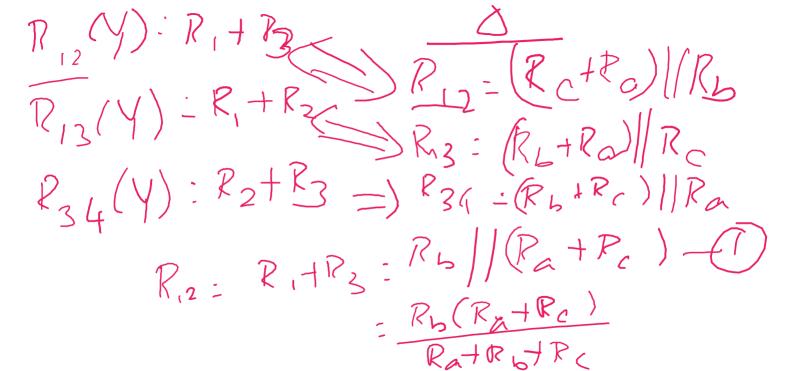


star - delta transformation. de Ha D con TT network





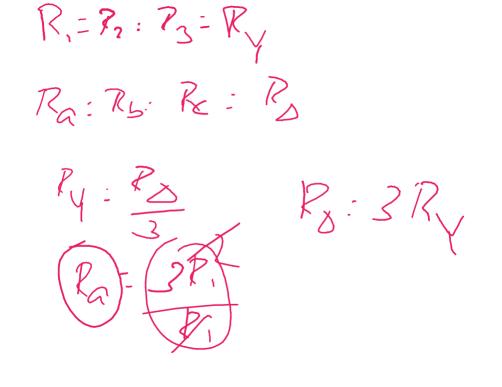
Delfa G star R12(D): PS//F2-1R()



R.: RbRc Ran Ry, Rc (ntams Rat RB+RC Rat P H Pc Ratrut Rc

R.Por

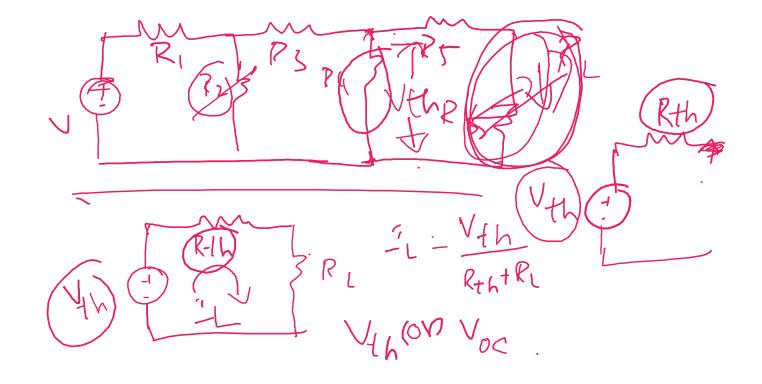
 \mathcal{R}_3 .

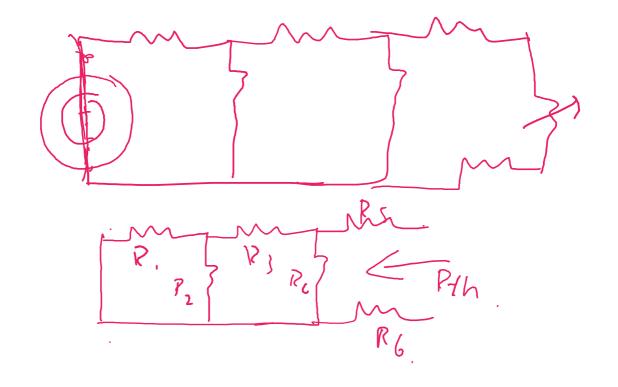


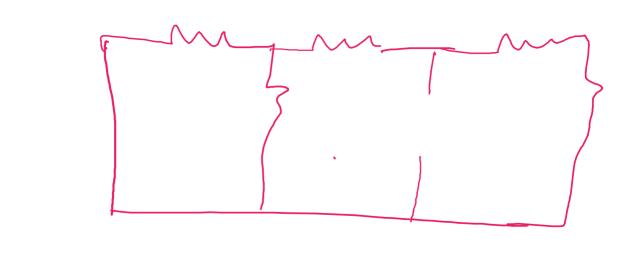
= 5A R3: -7

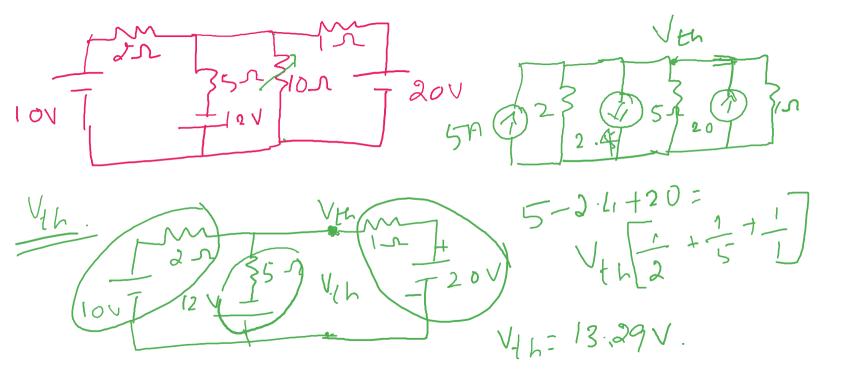
\

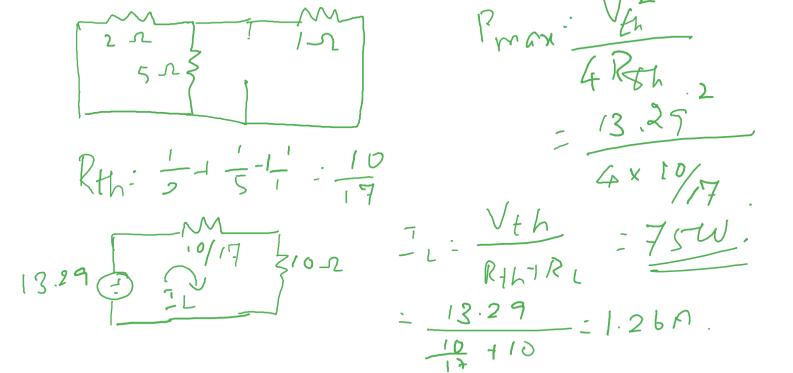
(Vth), The vonin Voltage (Rth), Theovonin Rosistance



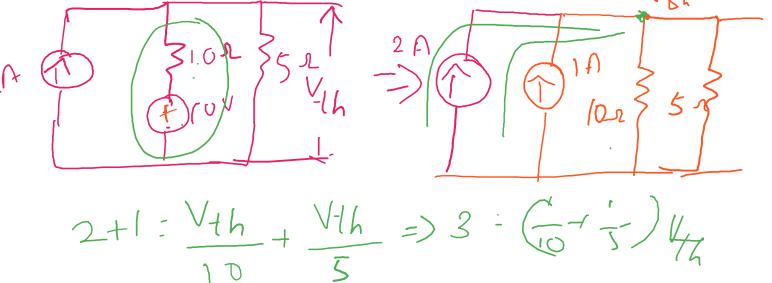






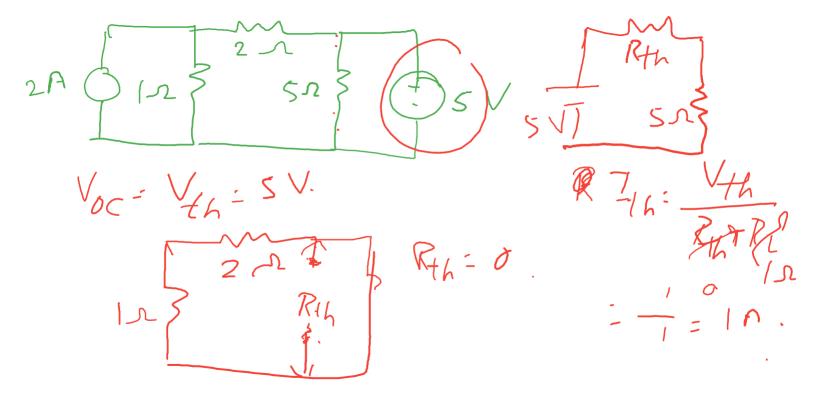


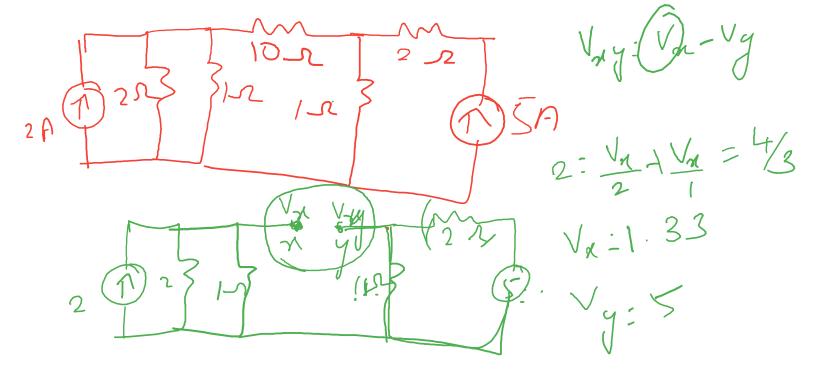
Therenin's the over



$$2+1 = \frac{V+h}{10} + \frac{V+h}{5} = 3 = (-7) \frac{1}{5}$$

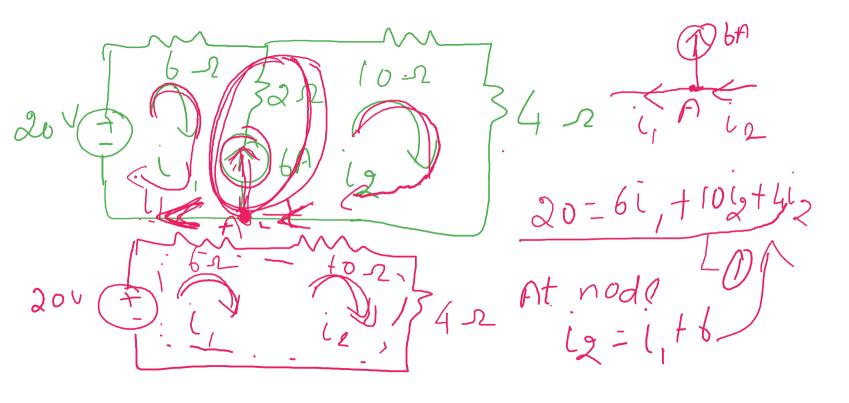
= 10+ = 11 = 3.33 1th - 4 $(2.31)\times1=5.33W$

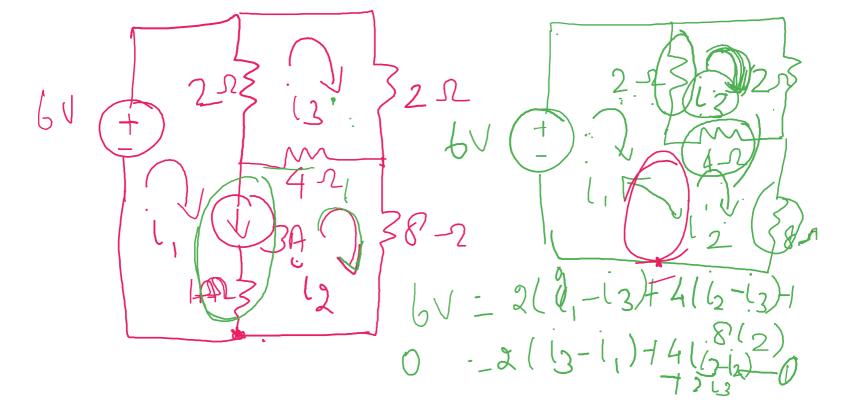


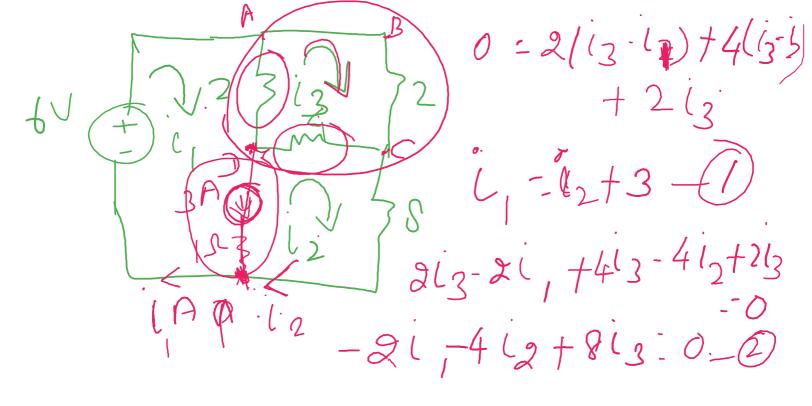


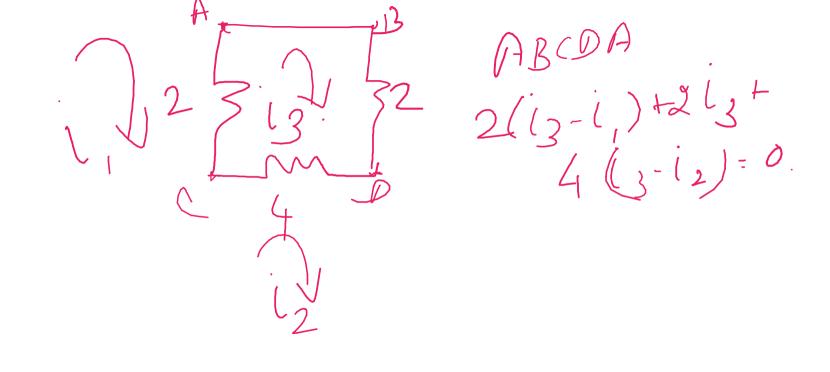
27 .1.33-5:-3.671 I-0.315

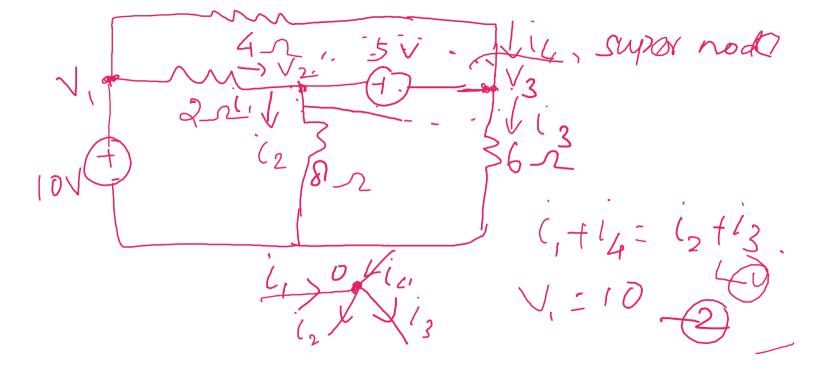
Mesh analysis with current some 10=4(,+6((,-62)

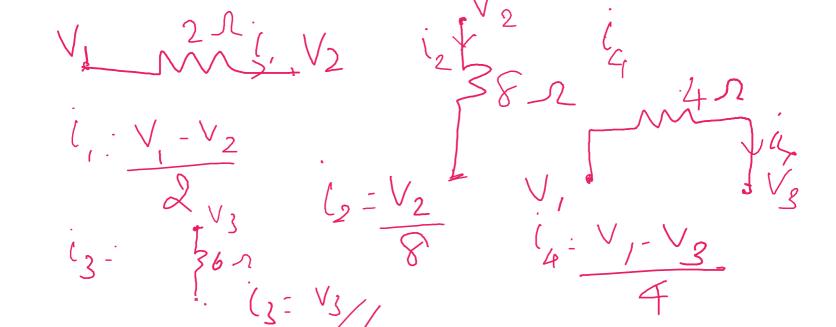












$$\frac{V_{1}+V_{2}+V_{1}-V_{3}}{2}+\frac{V_{2}+V_{3}}{4}=\frac{V_{2}}{8}+\frac{V_{3}}{6}$$

$$-\frac{V_{2}+5+V_{3}}{2}=\frac{V_{2}+V_{3}}{4}=\frac{V_{2}+V_{3}}{8}+\frac{V_{3}-5}{6}$$

$$\frac{V_{1}-V_{2}+V_{3}-5}{4}=\frac{V_{2}+V_{3}-5}{8}+\frac{V_{3}-5}{6}=\frac{V_{3}-5}{6}=\frac{V$$

$$V_2 = 46$$
 $V_3 = 21/-$

V3 = 21/5