

تقدم لجنة ElCoM الاكاديمية

دفتر لمادة: **دوائر كهربائية (1)**

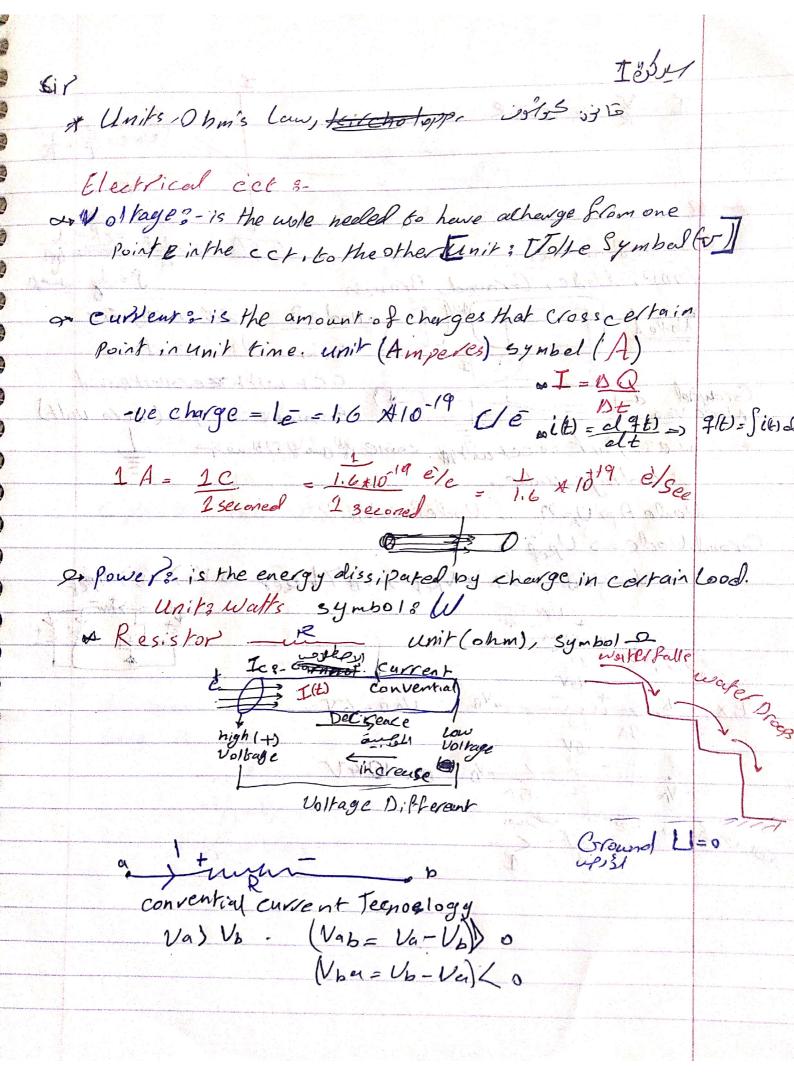
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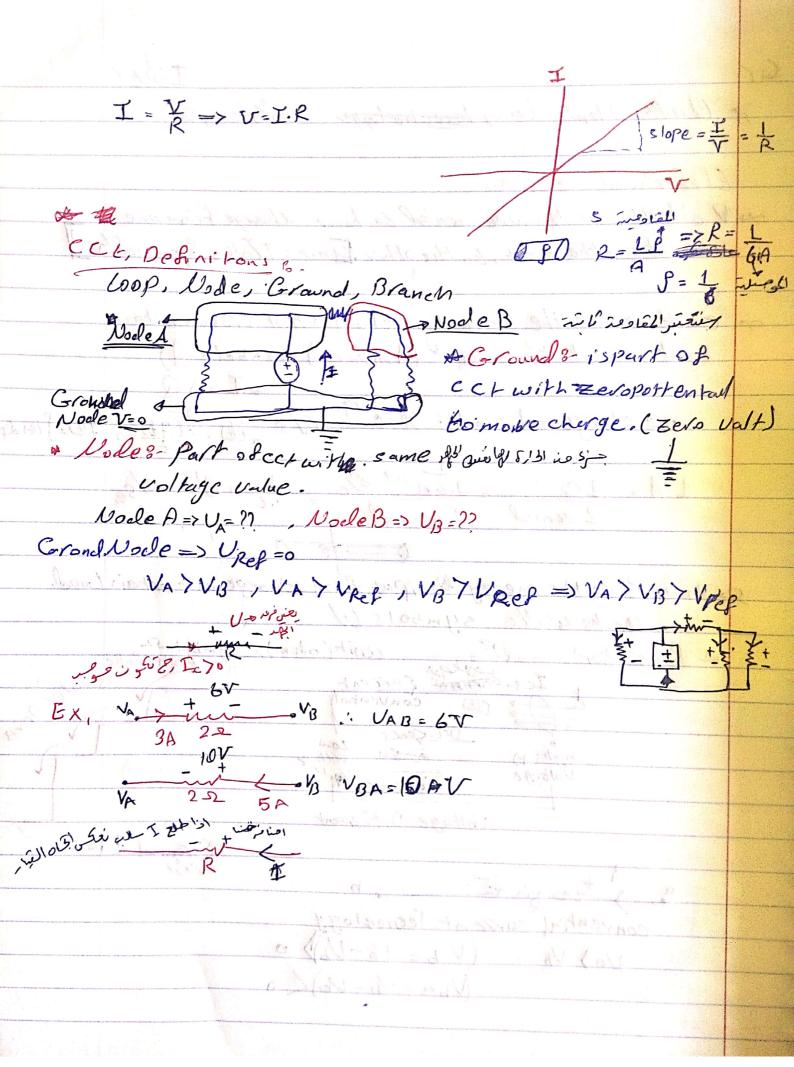
د.آشرف العلب

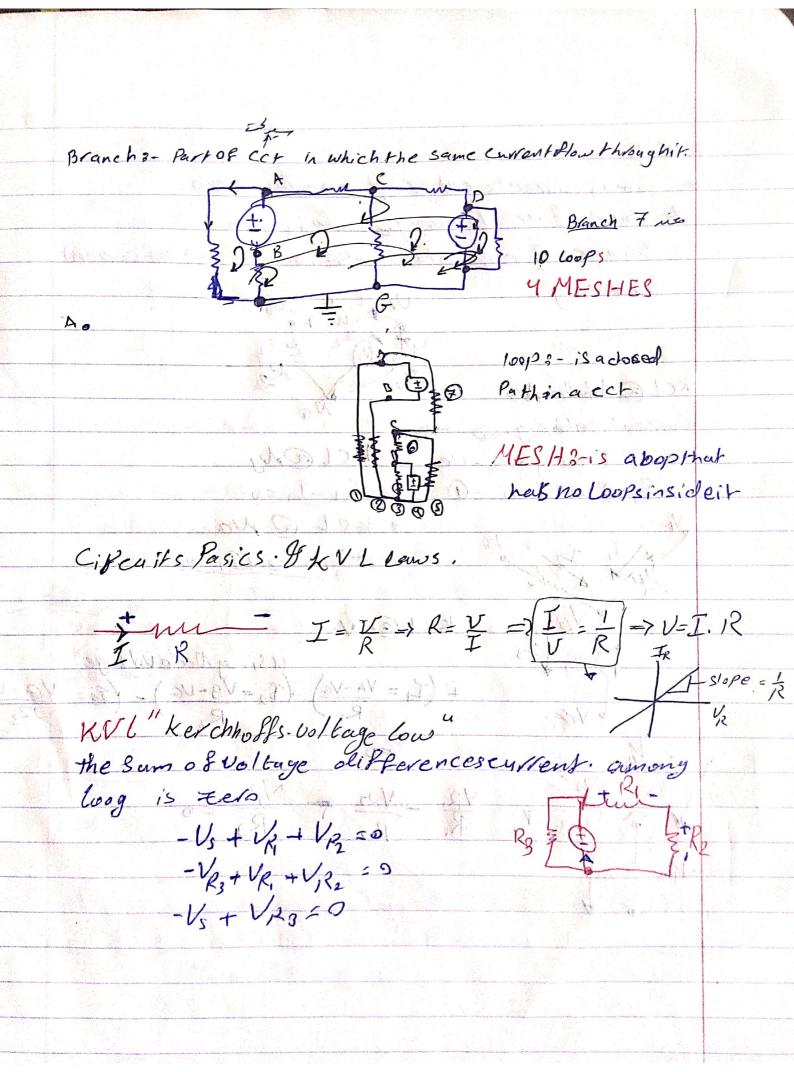
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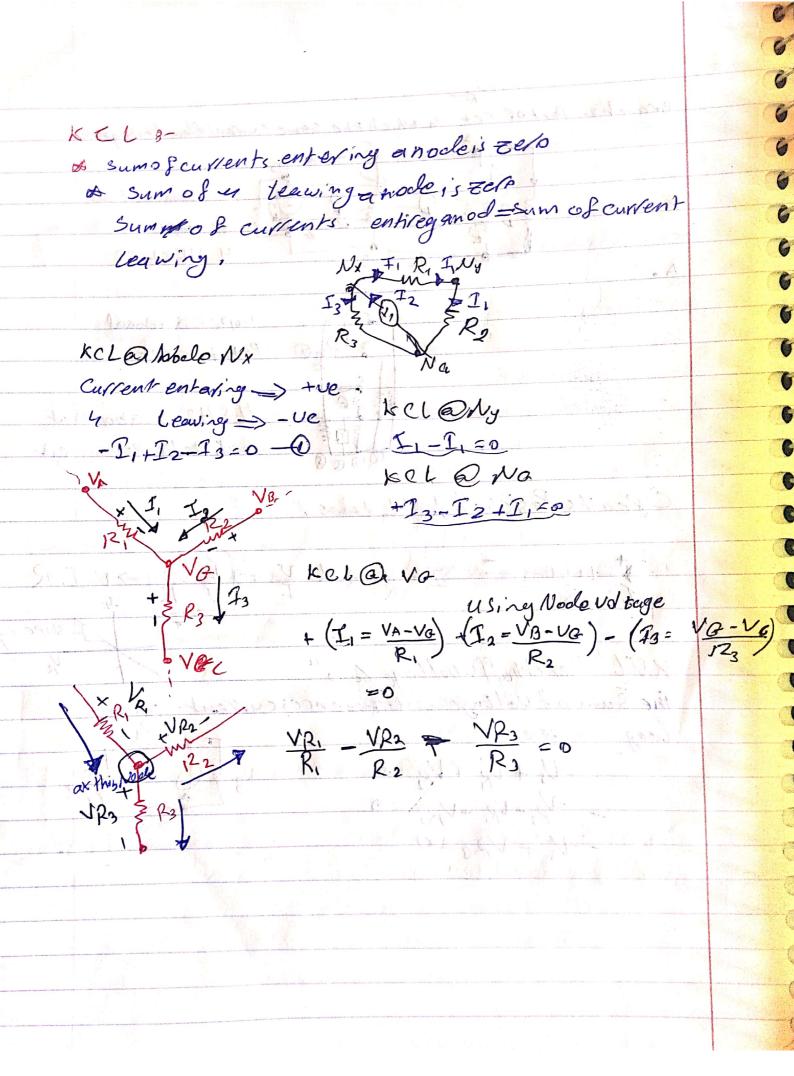
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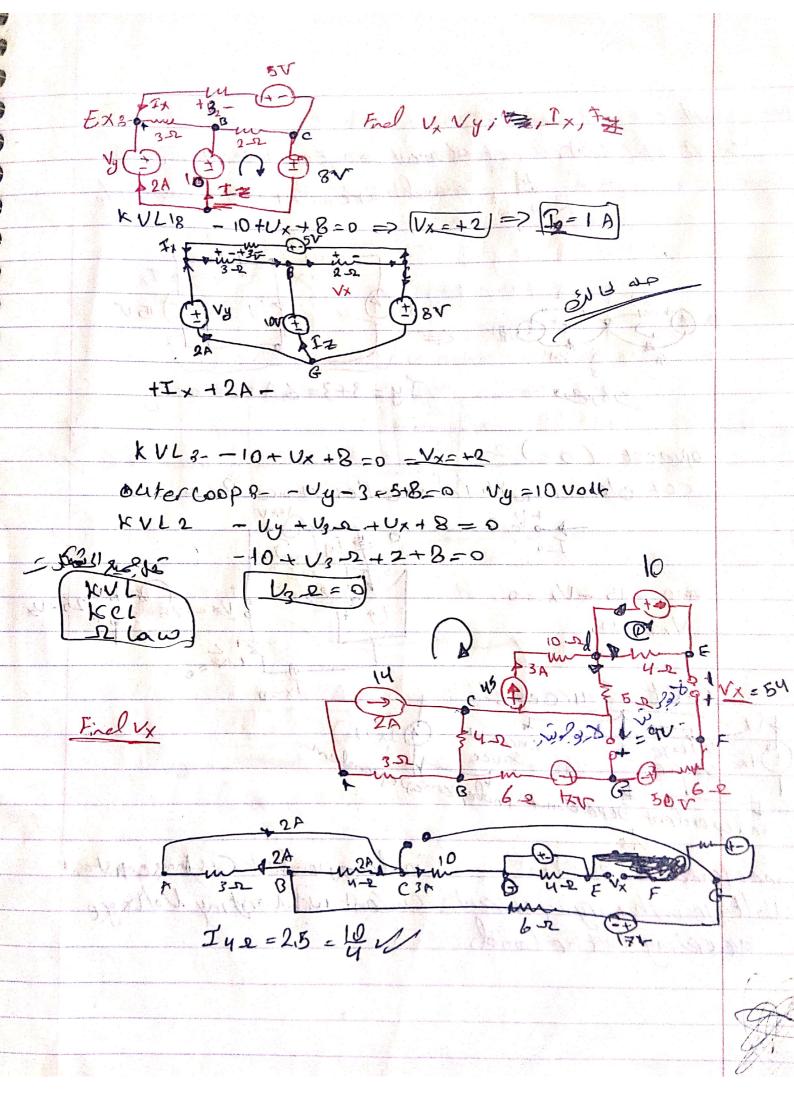


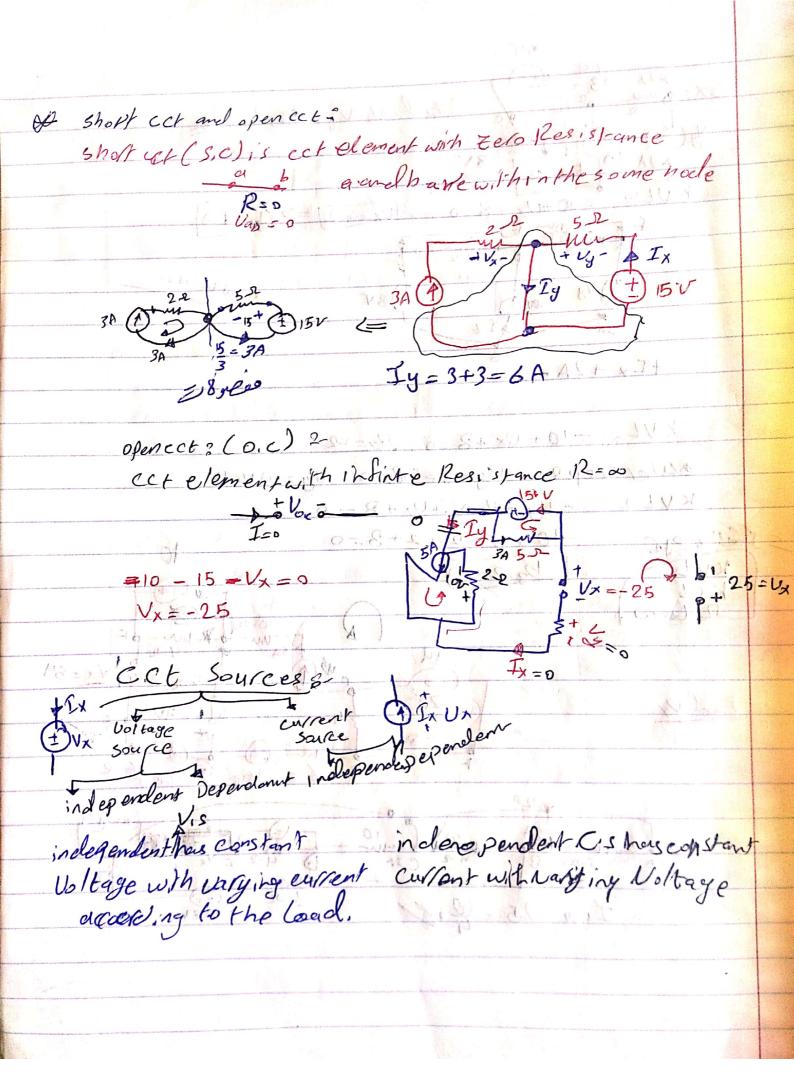


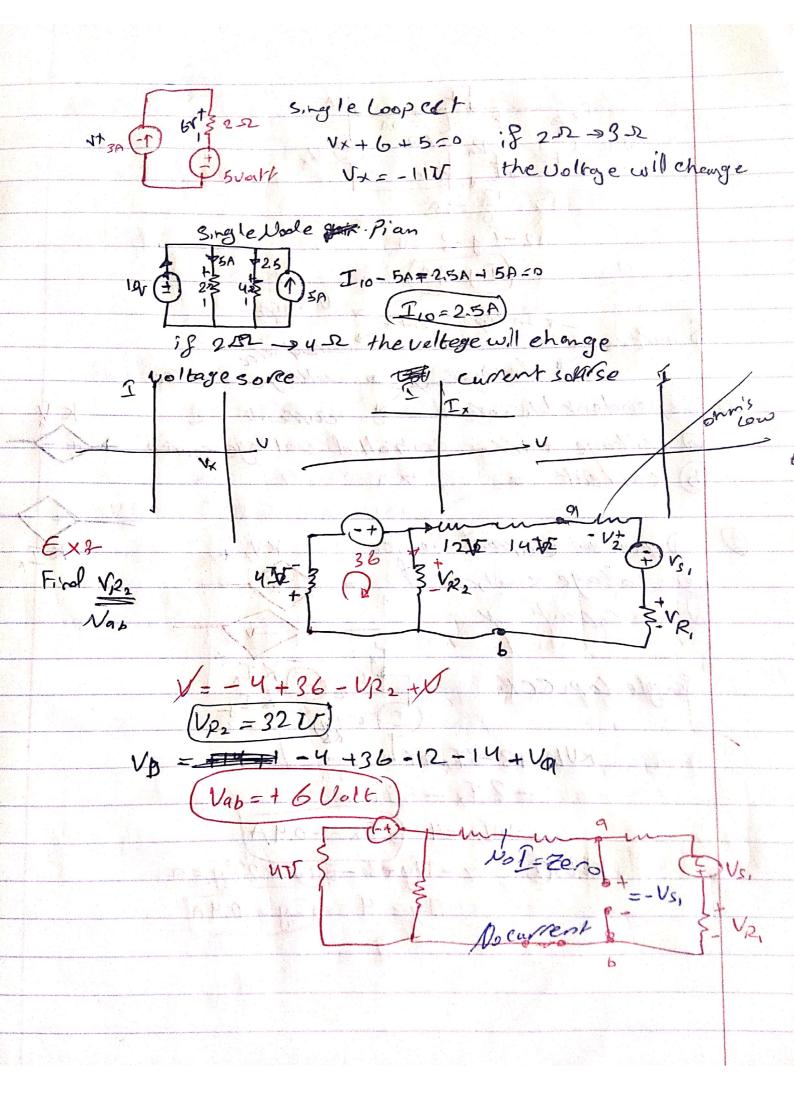


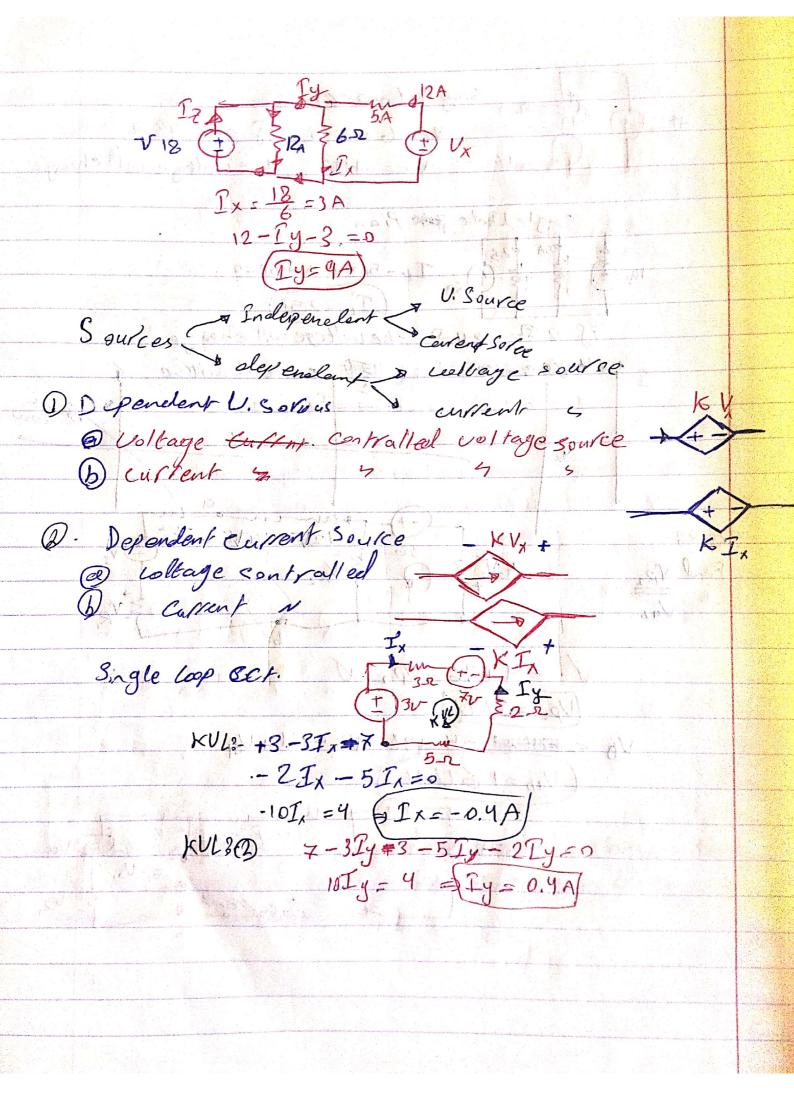


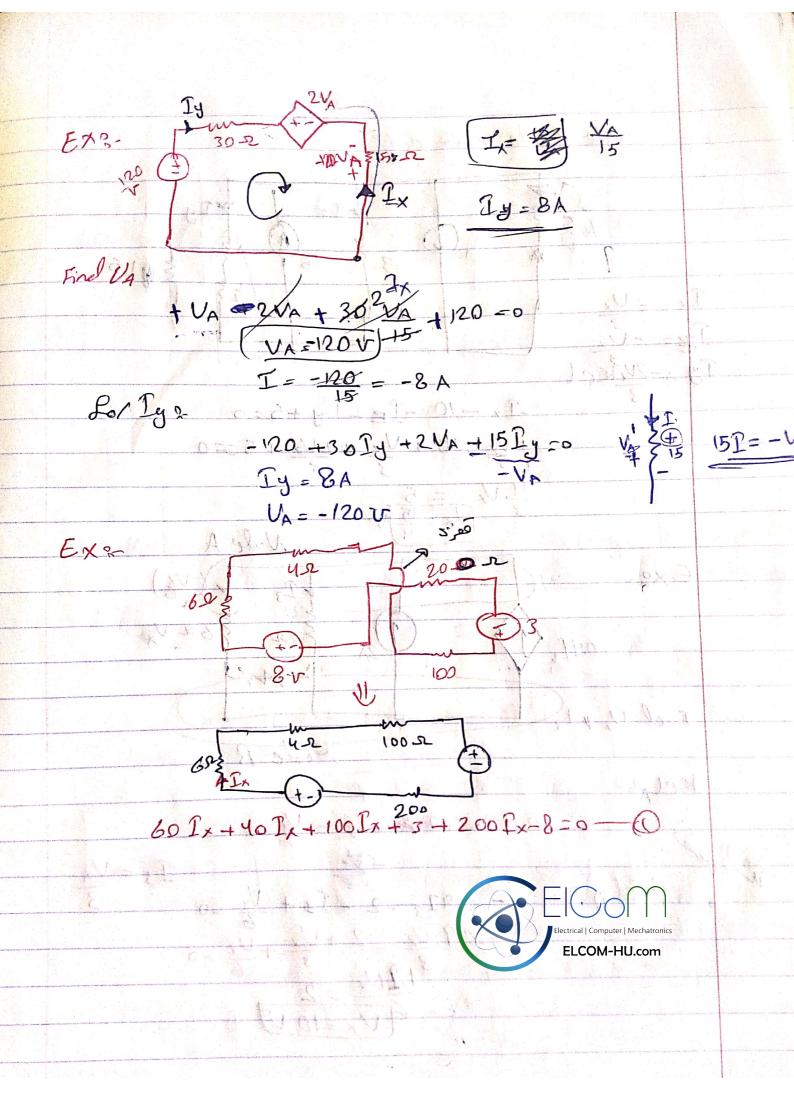


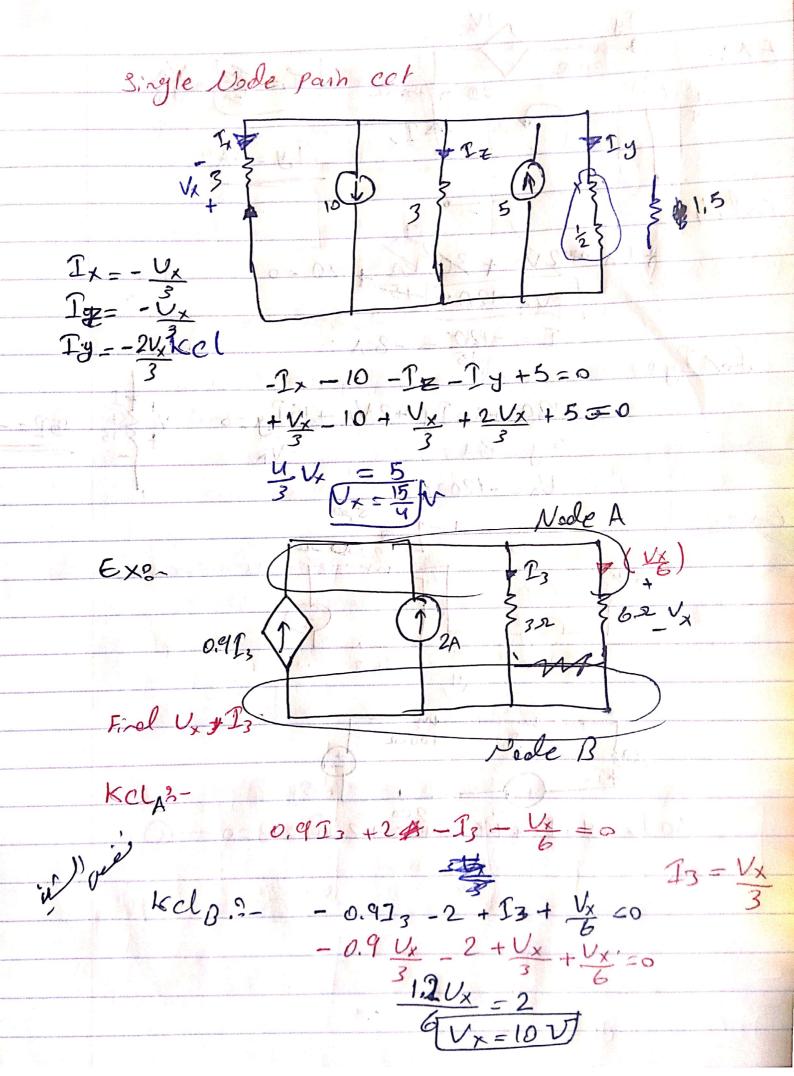


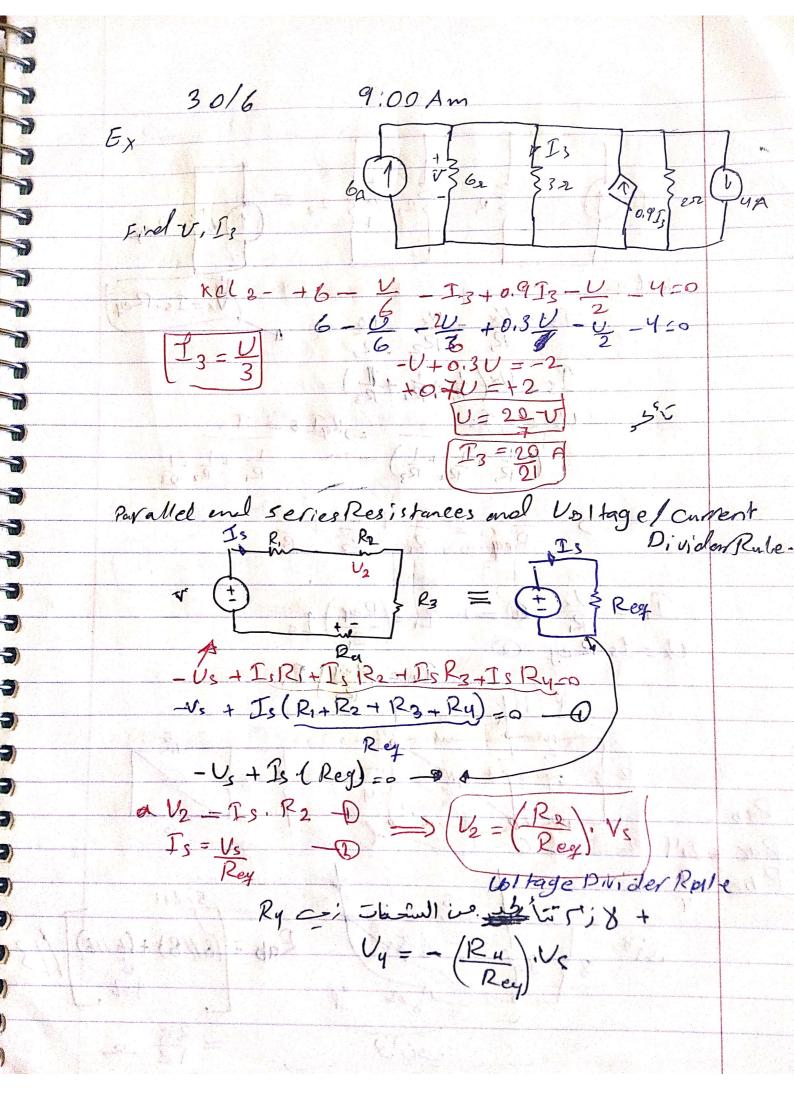


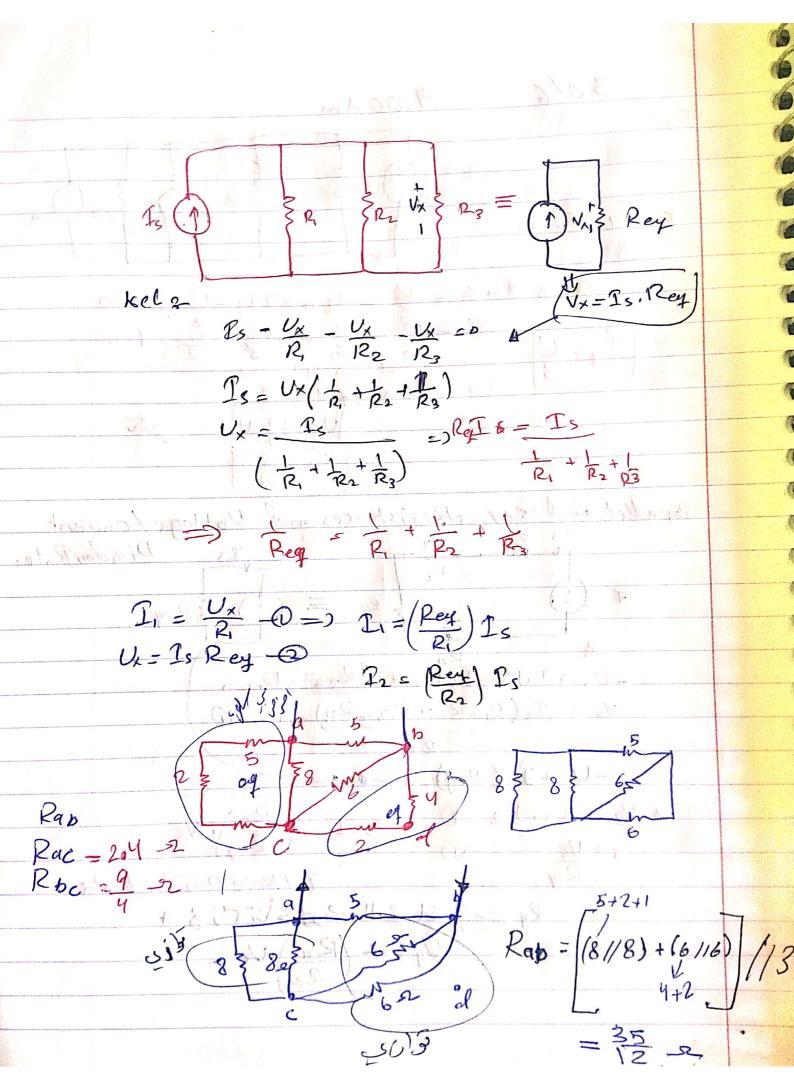




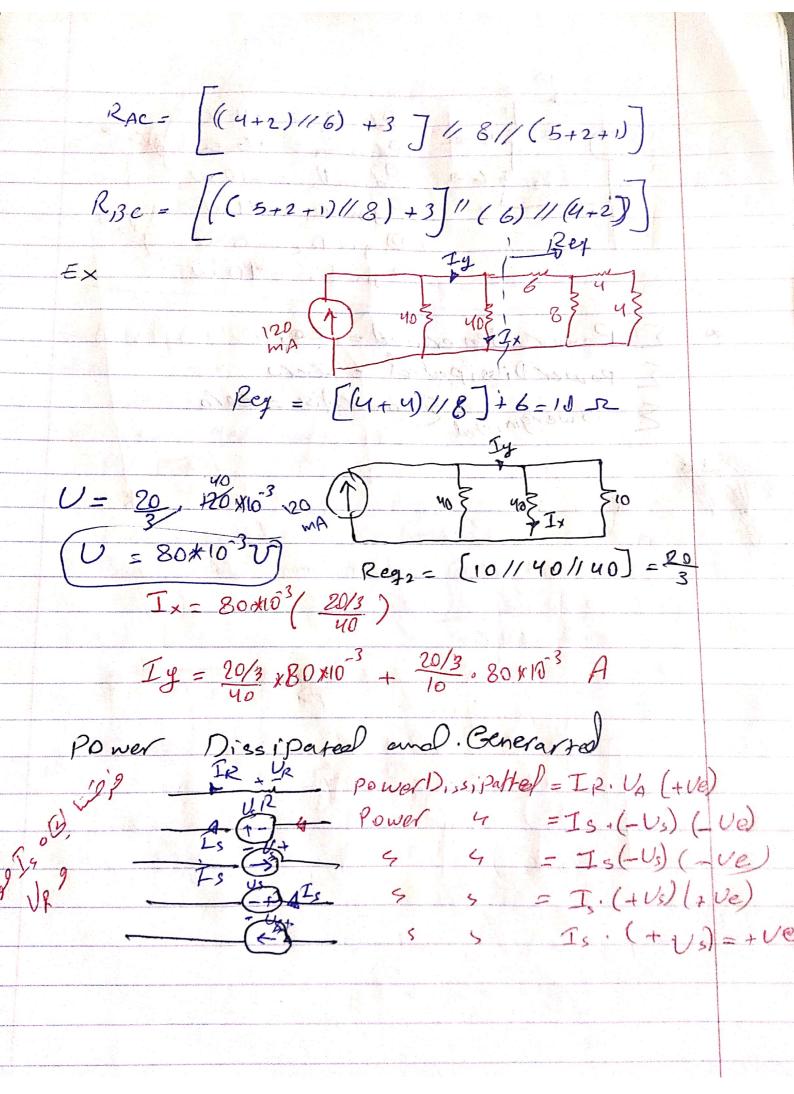


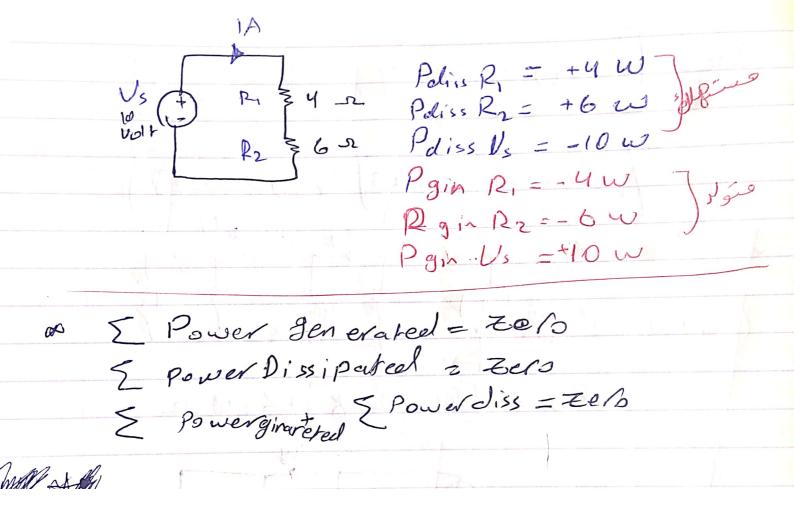


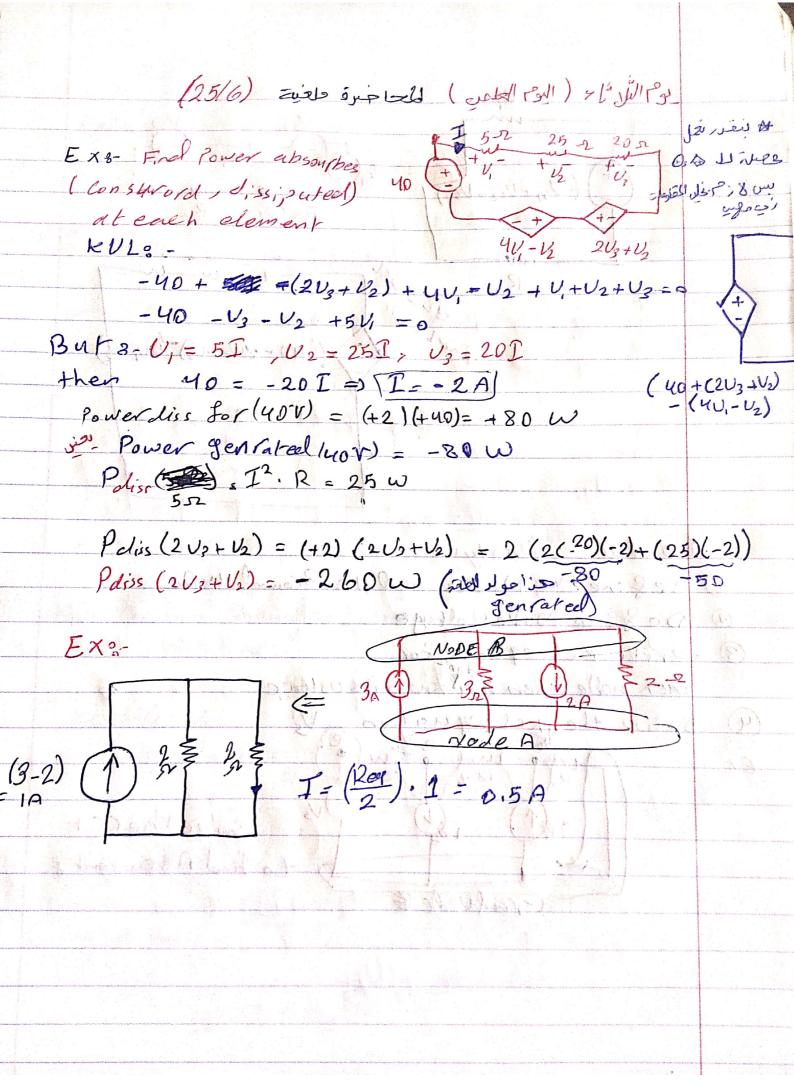


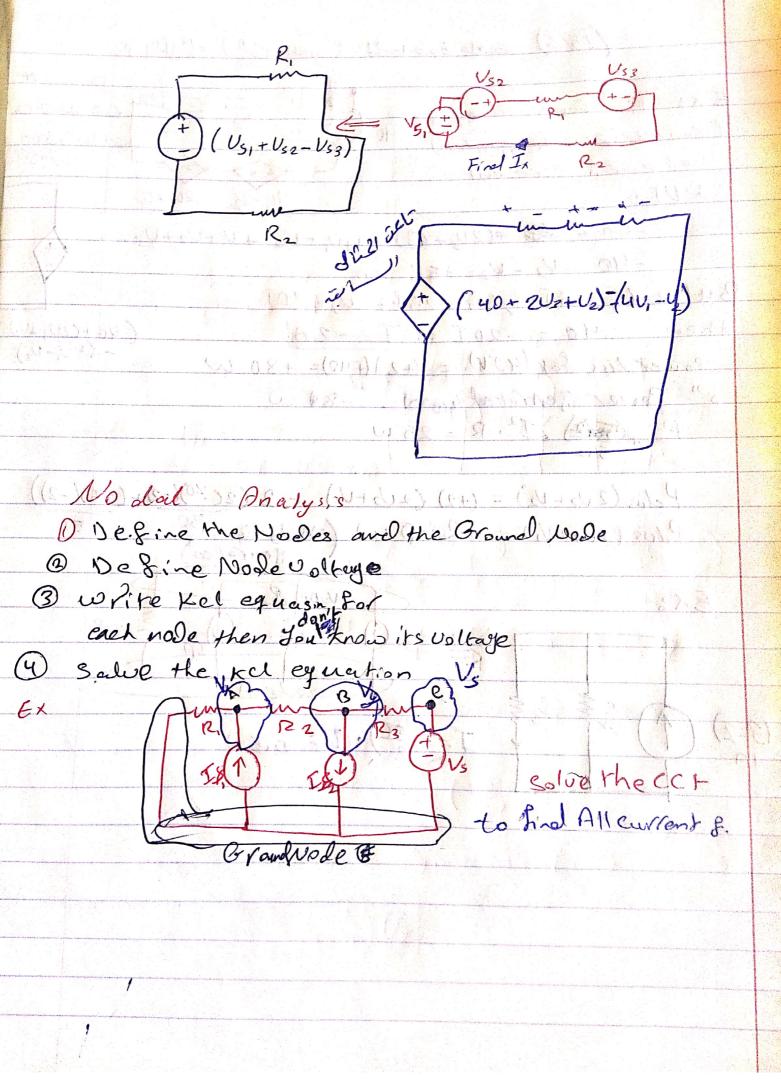


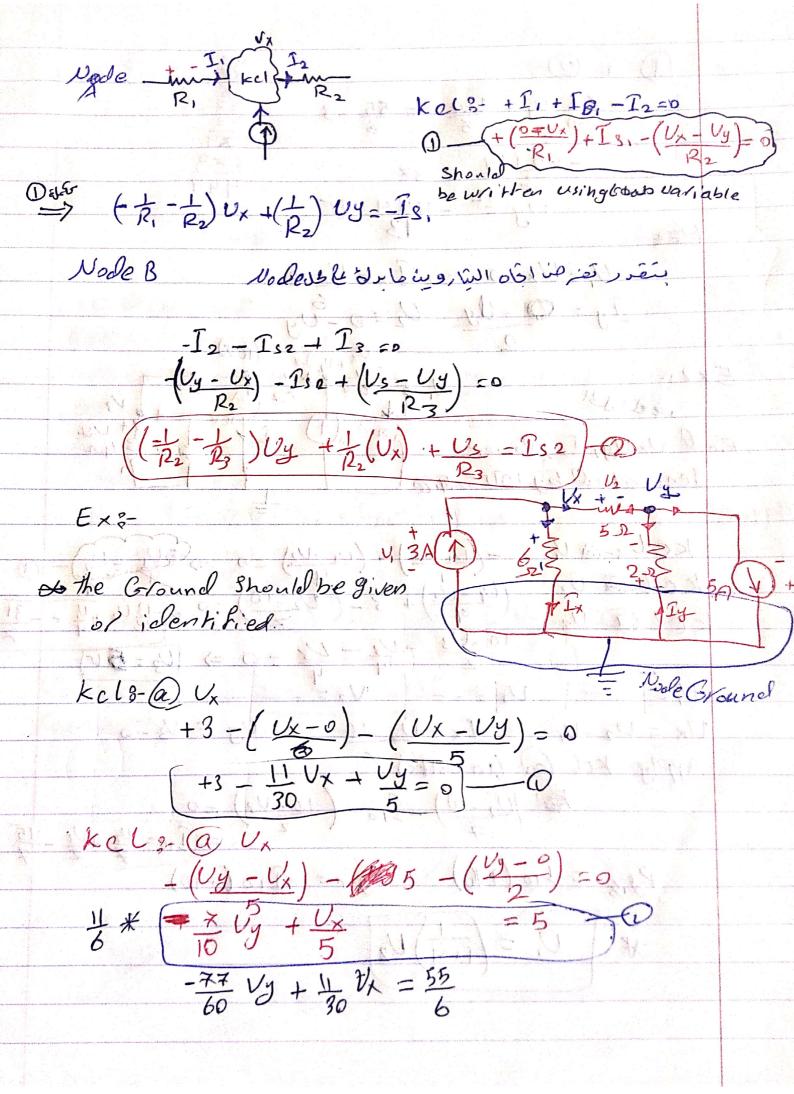
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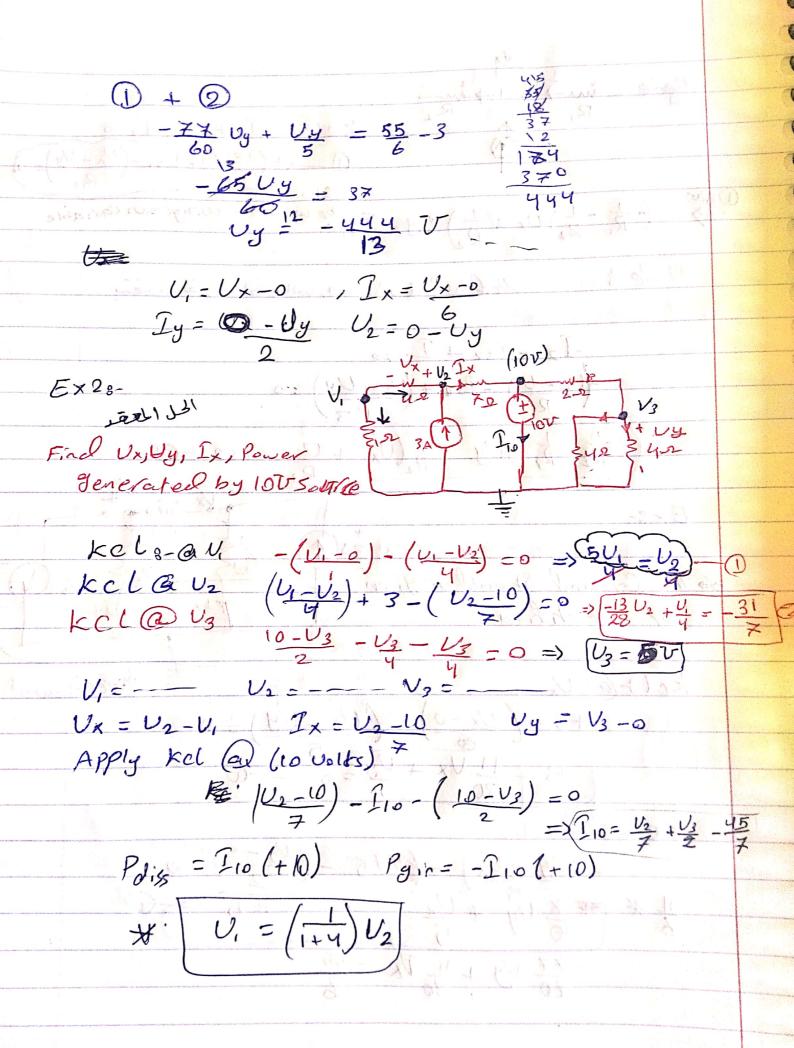


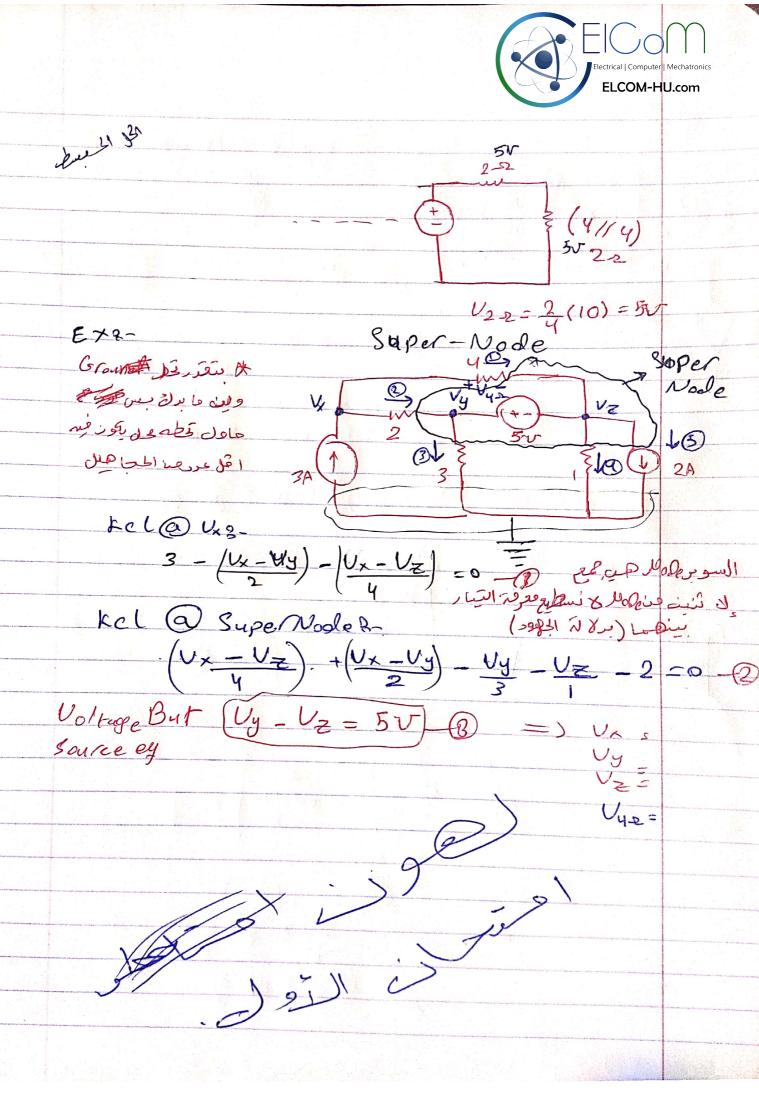












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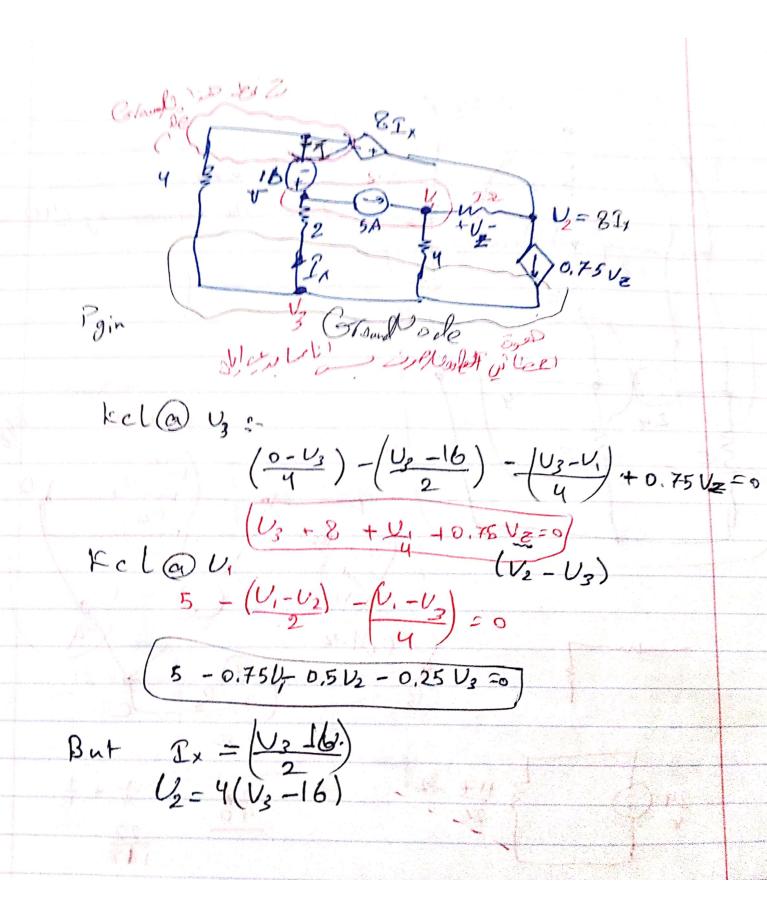
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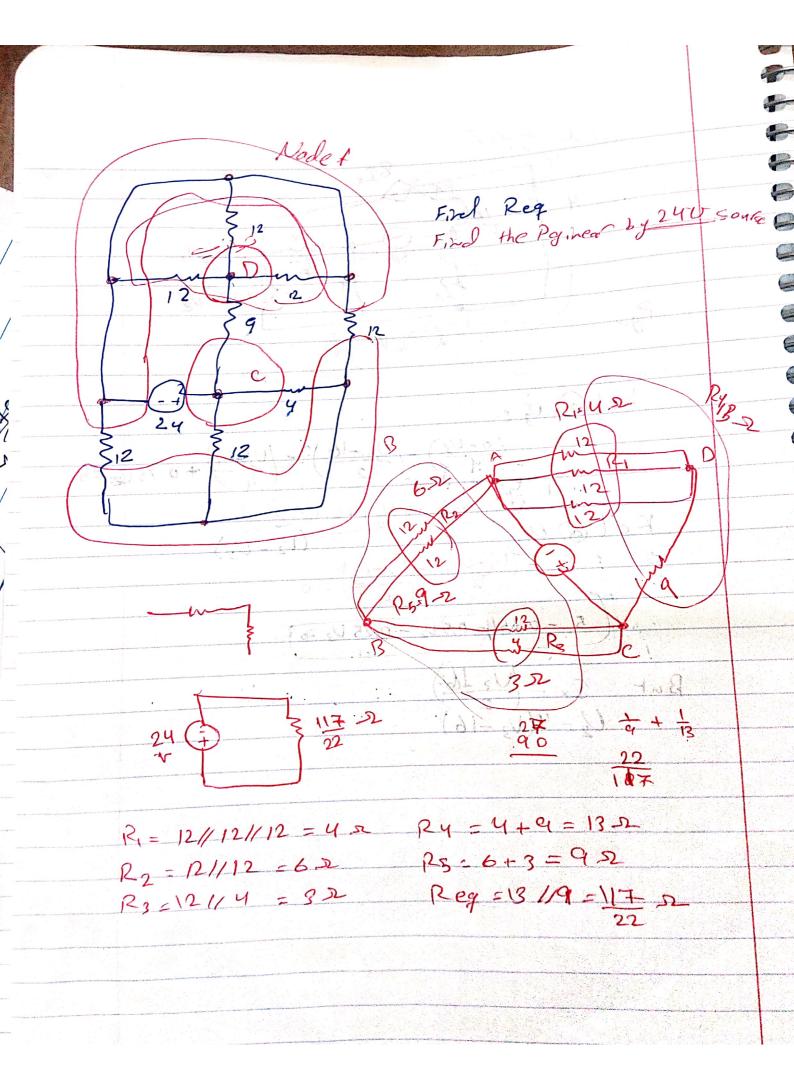
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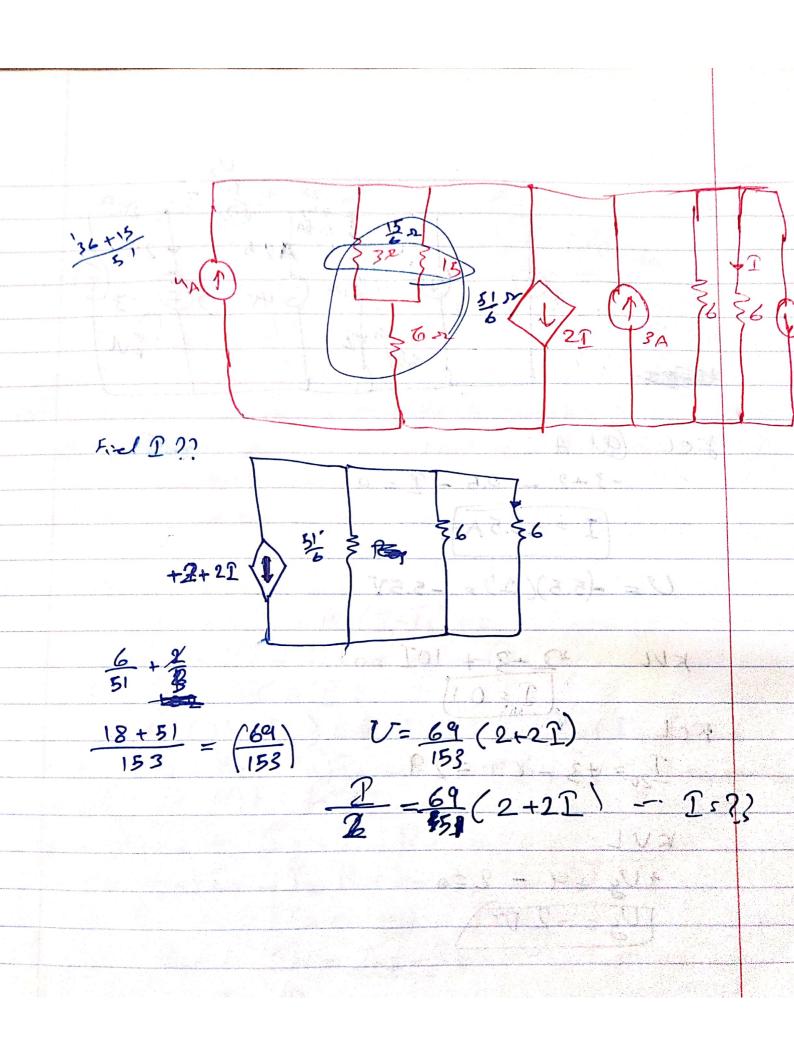
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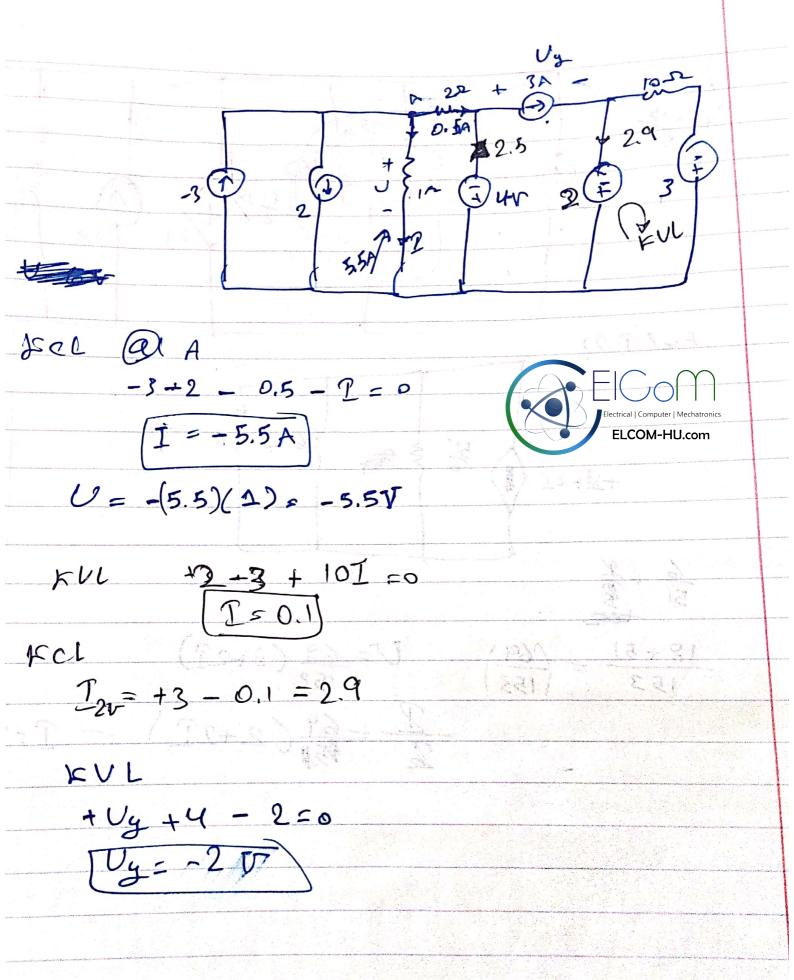
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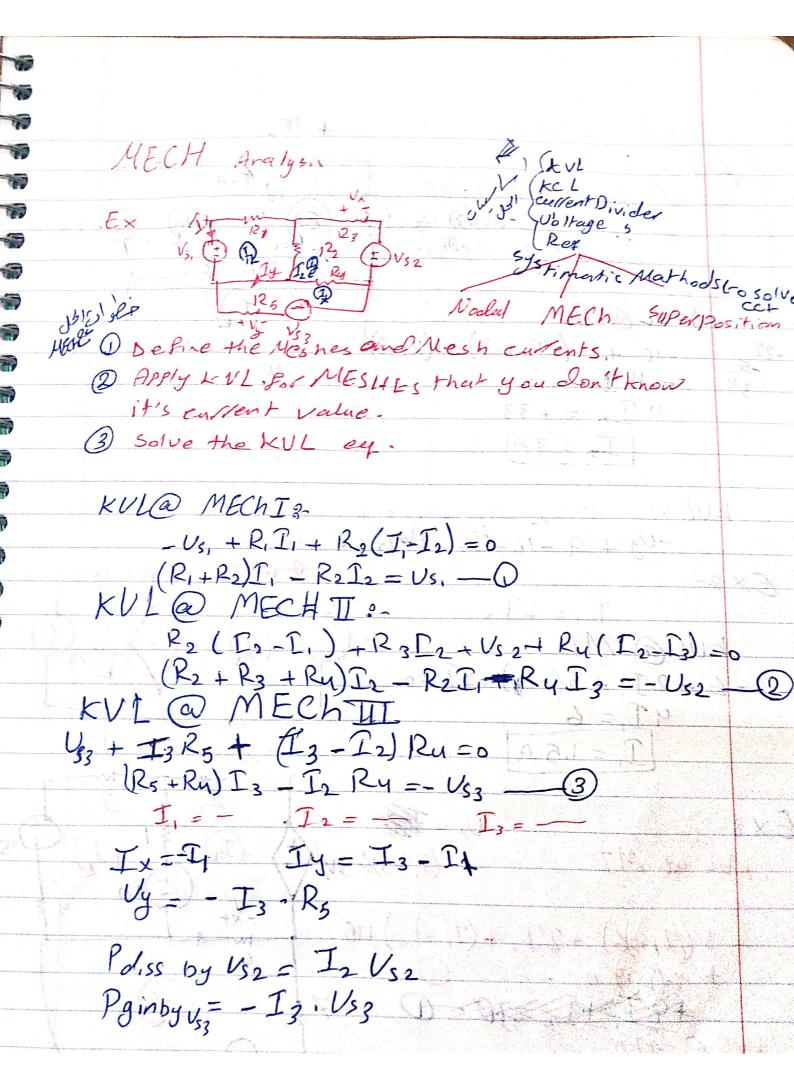
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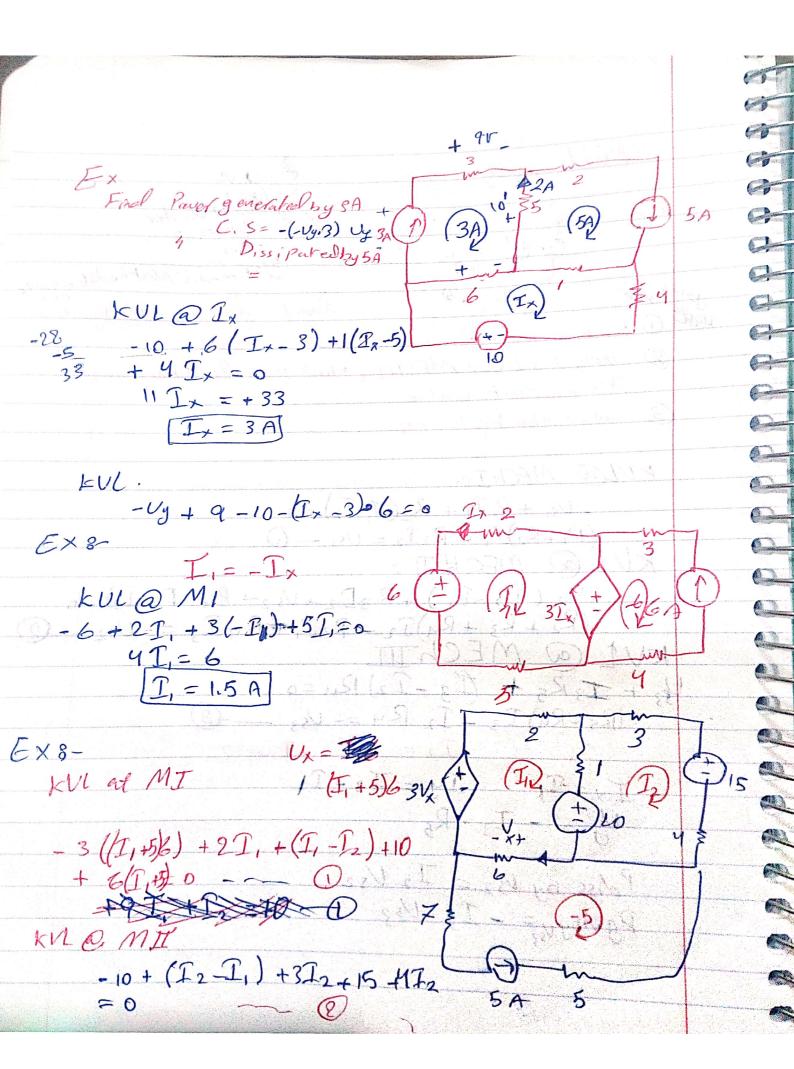


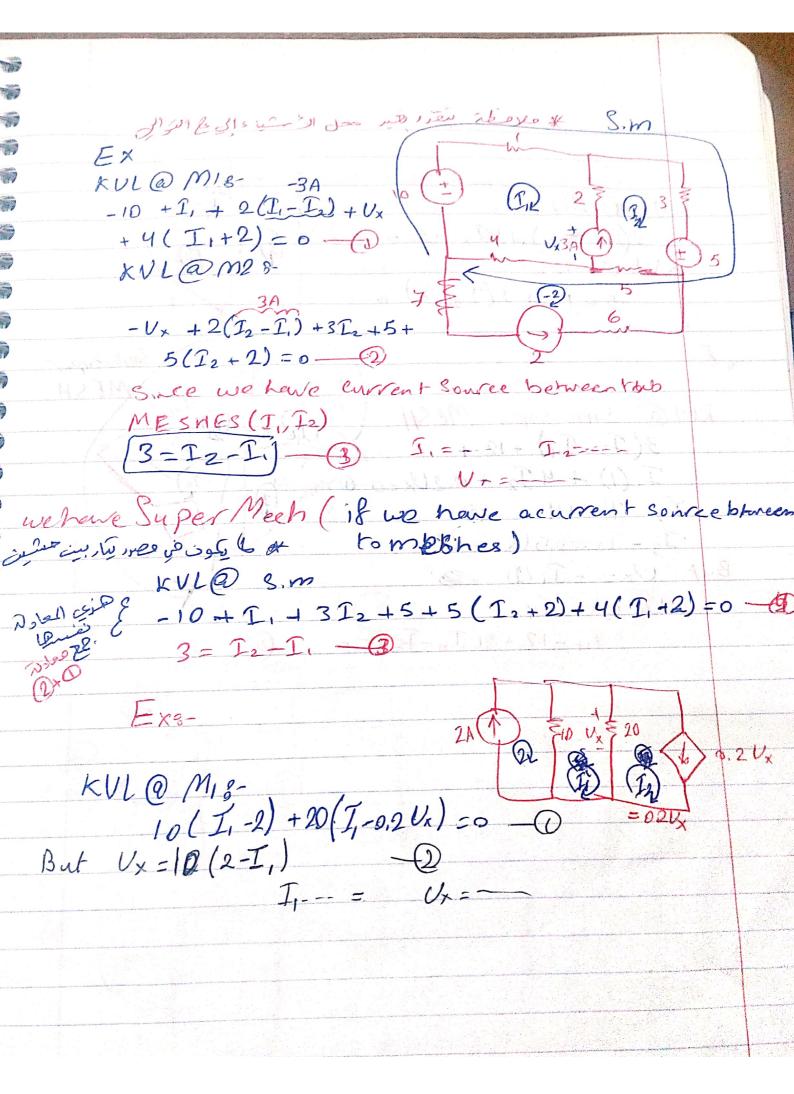


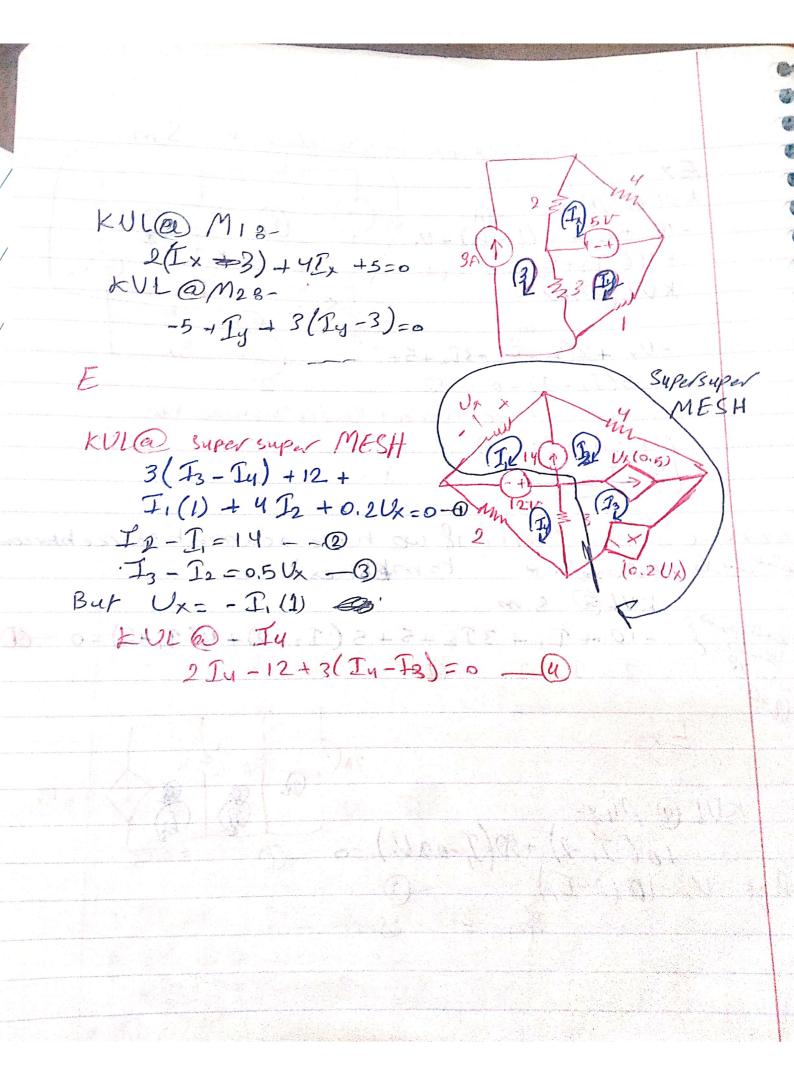


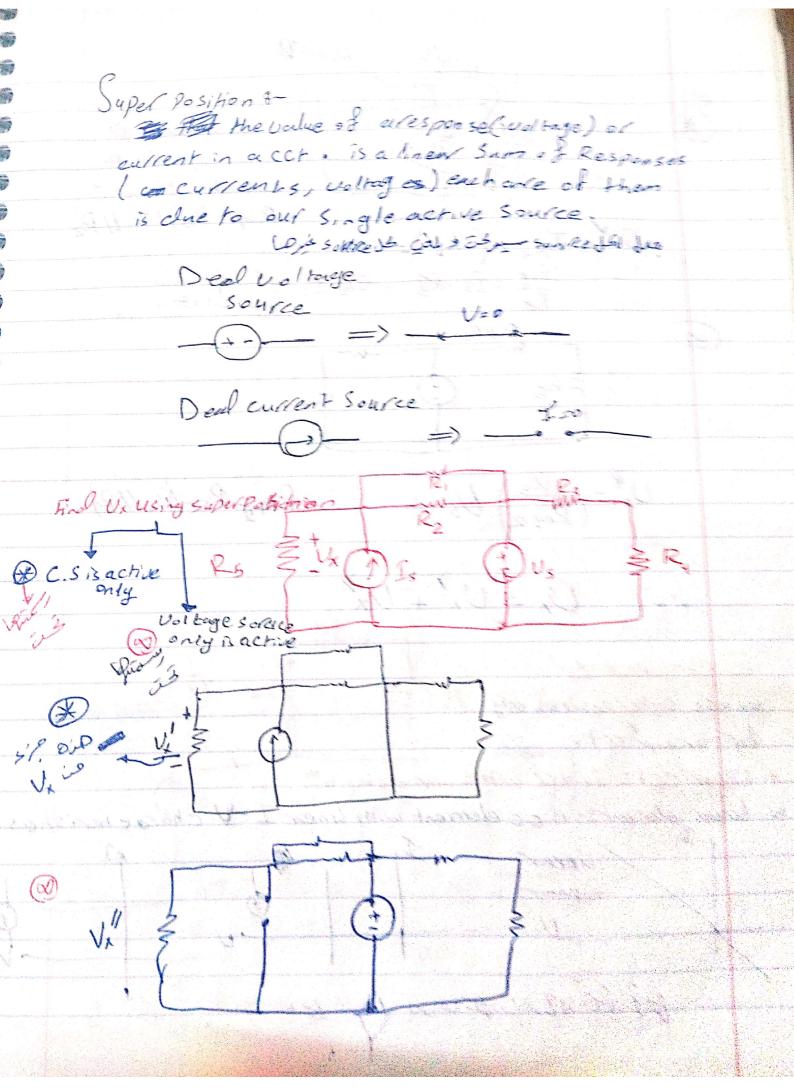




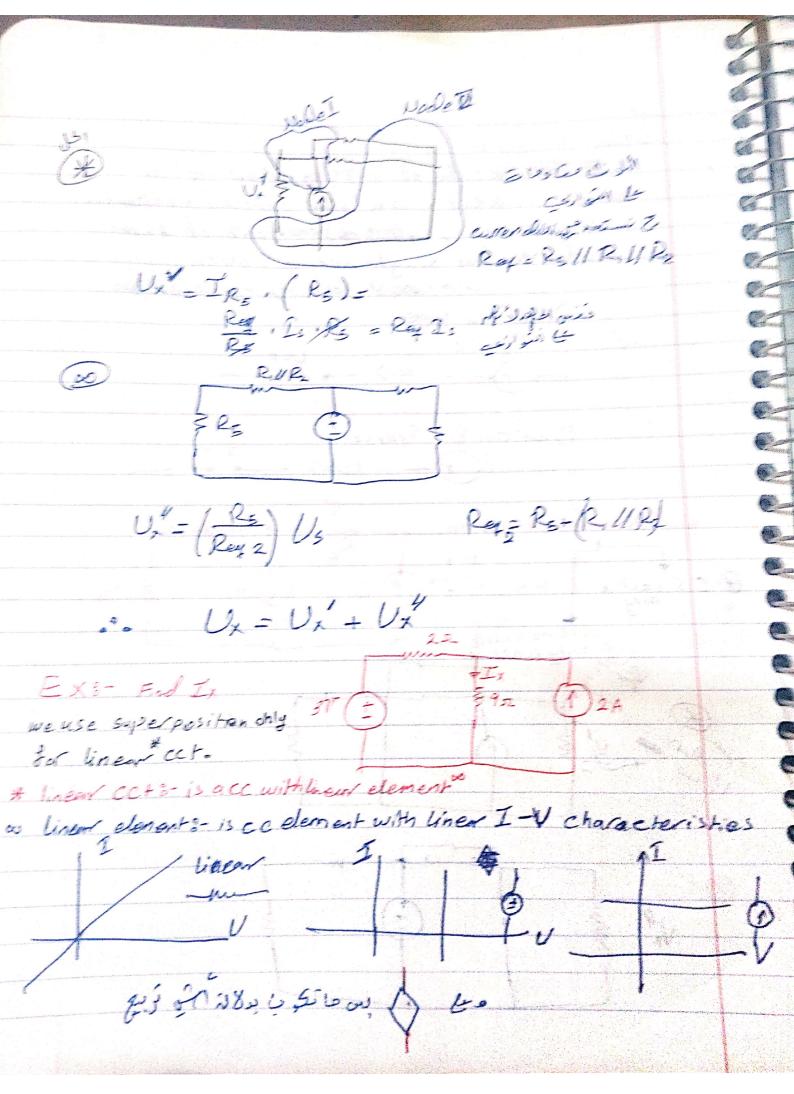




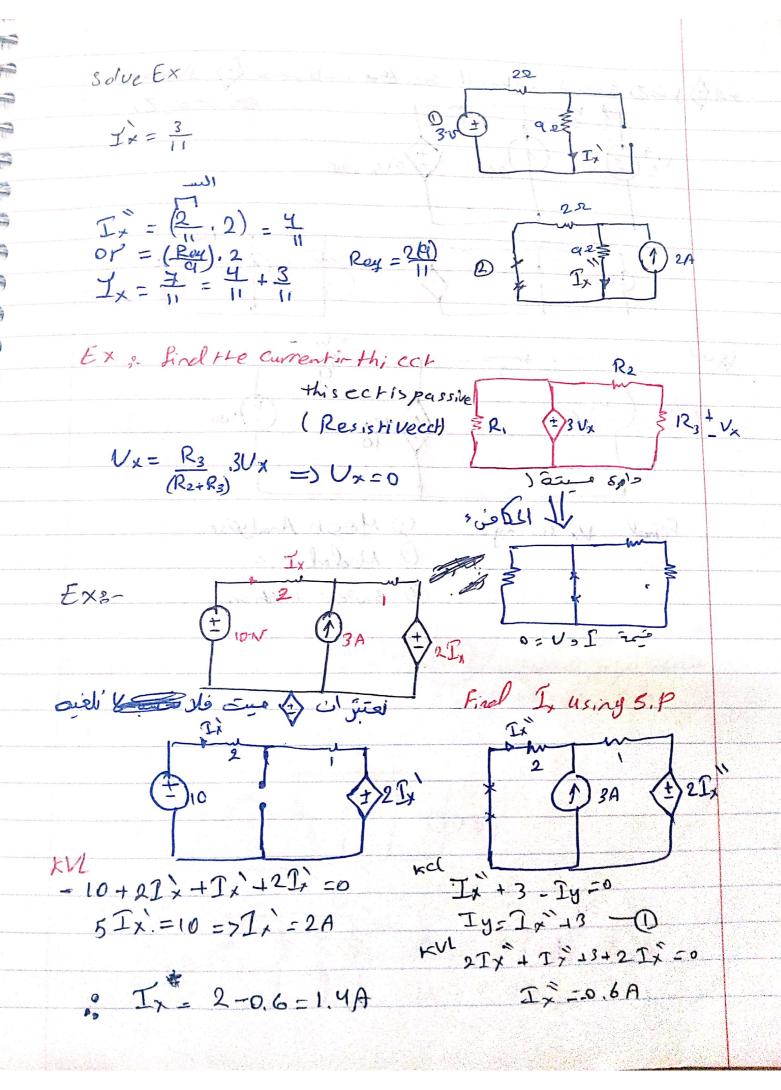


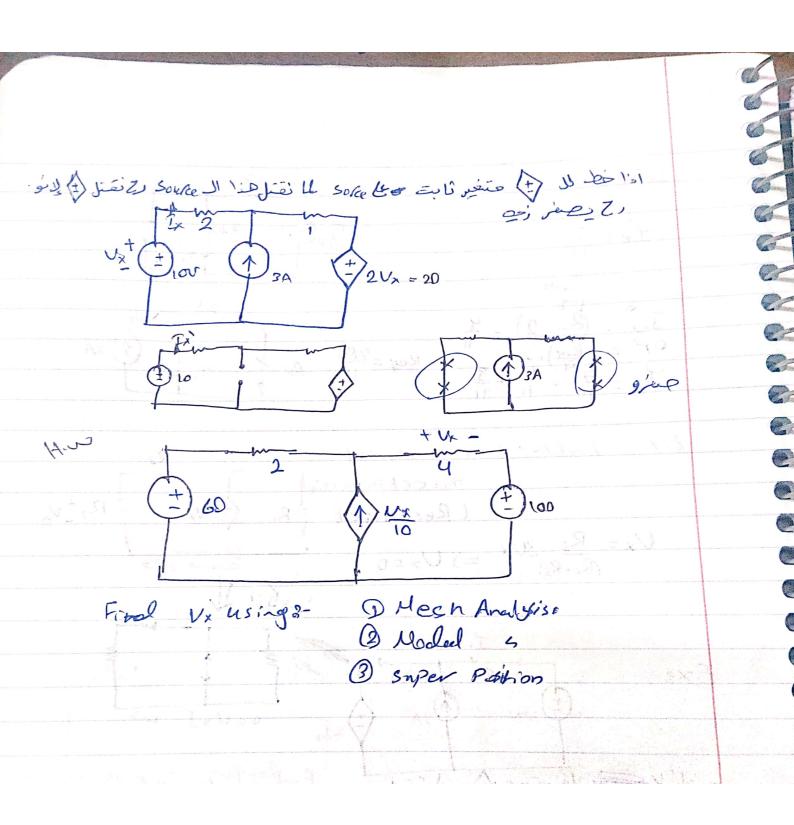


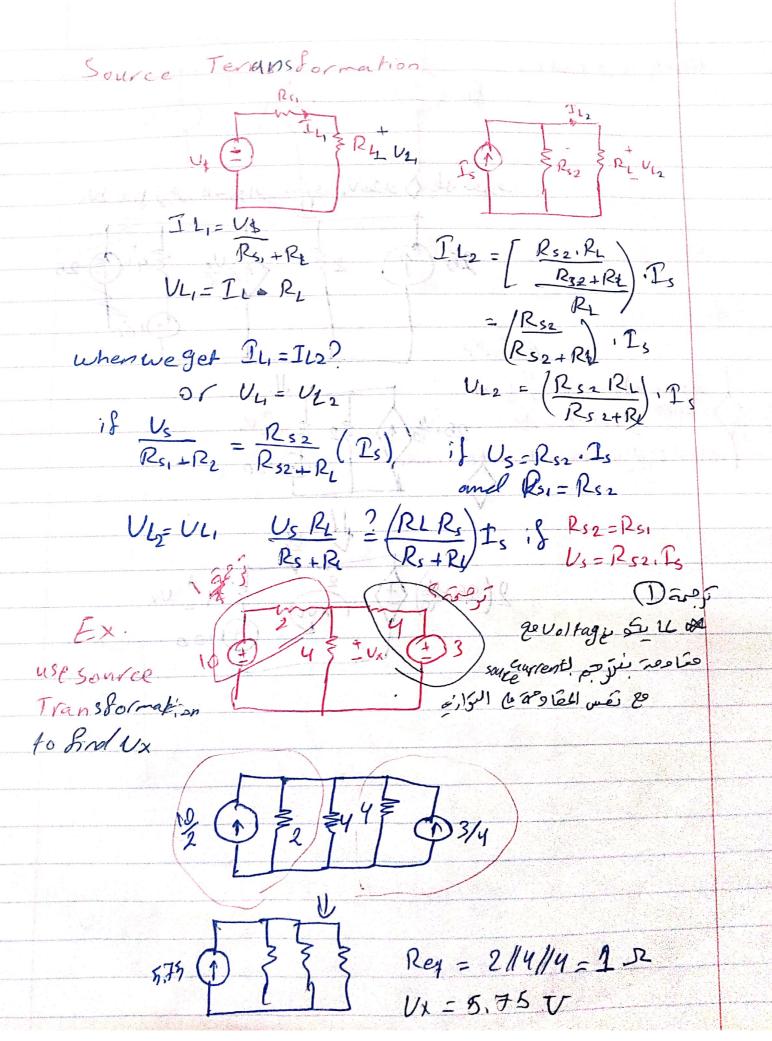
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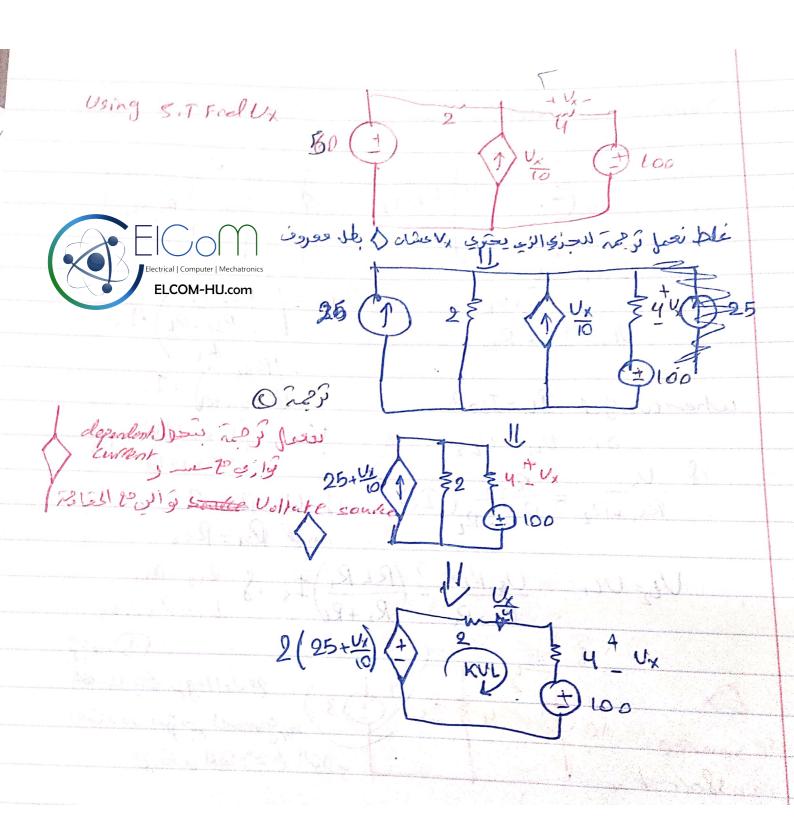


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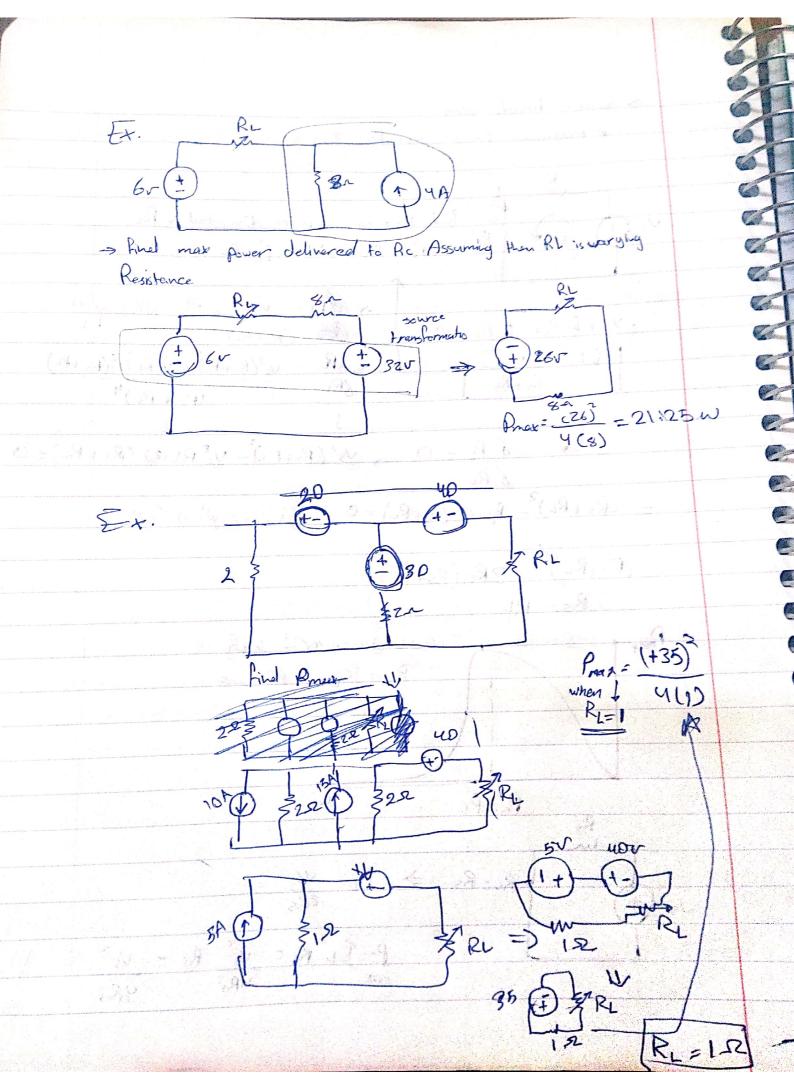




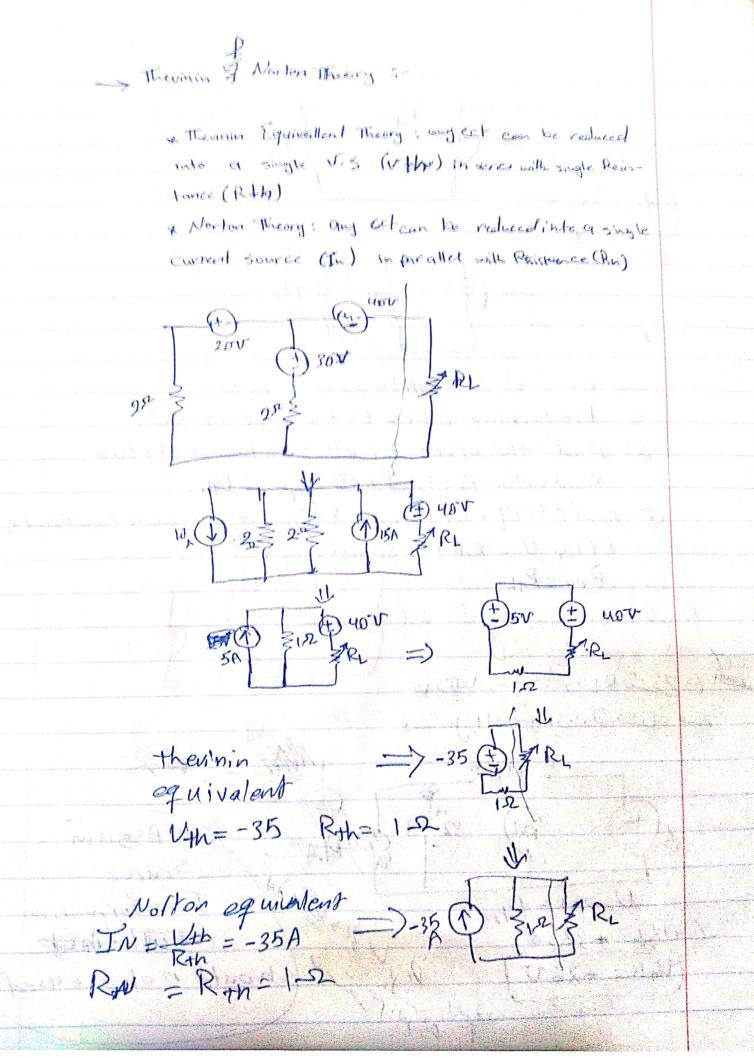


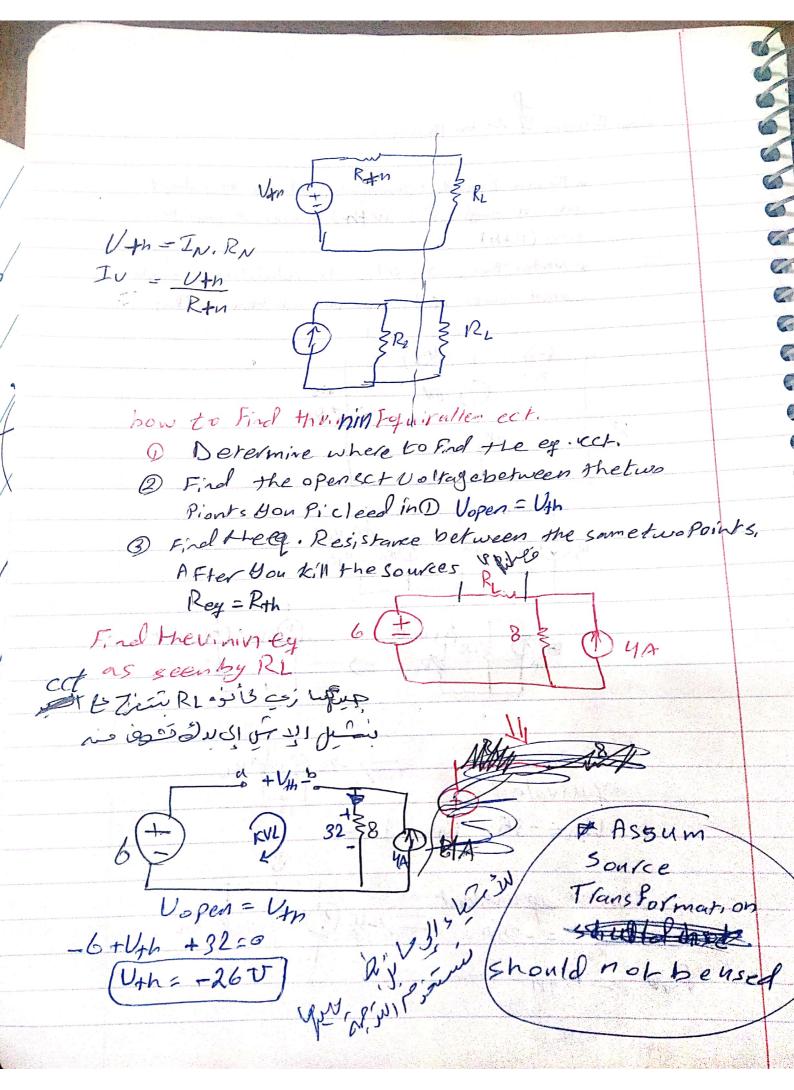


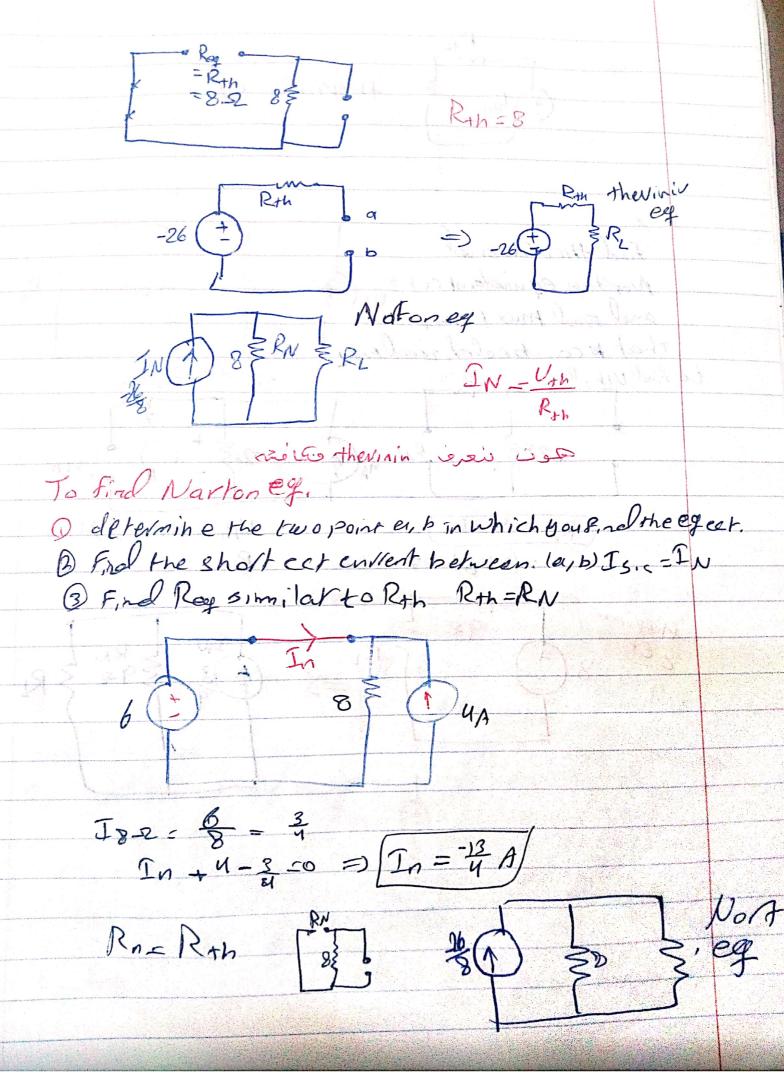
> Source Transformation & maximum power Transfer Theory Red Find the marinum power dissipation in Ru (Red RL PL = IL # VL = IL+ RL $-VS + I_L R_{S} + I_L R_L = 0$ $| I_L = \frac{V_S}{R_S + R_L} | \frac{2}{R_S + R_L} | \frac{2}{R_L} | \frac{2}{R_L}$ 6 PL = 0 > 452 (RS+R) - 42 RLQ (RS+R) = 0 = (Rs+RL)2- RL(2) (RE4RL) = 0 () () () () () () () () (RS+RL) = 2Re (RS+RL) RS= RL igale del Power 11 i 5 Rs= Rp. a Filene RSZRL > INF VS & RUZRS PE II RES US RS = W2
max

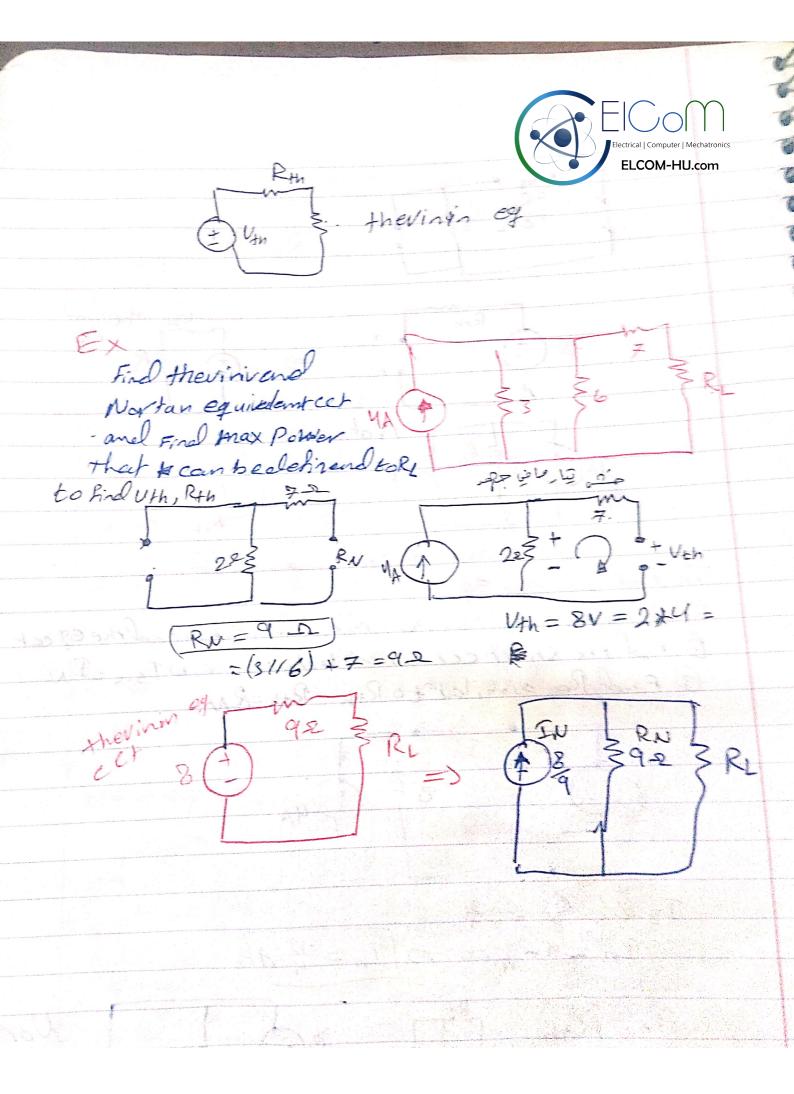


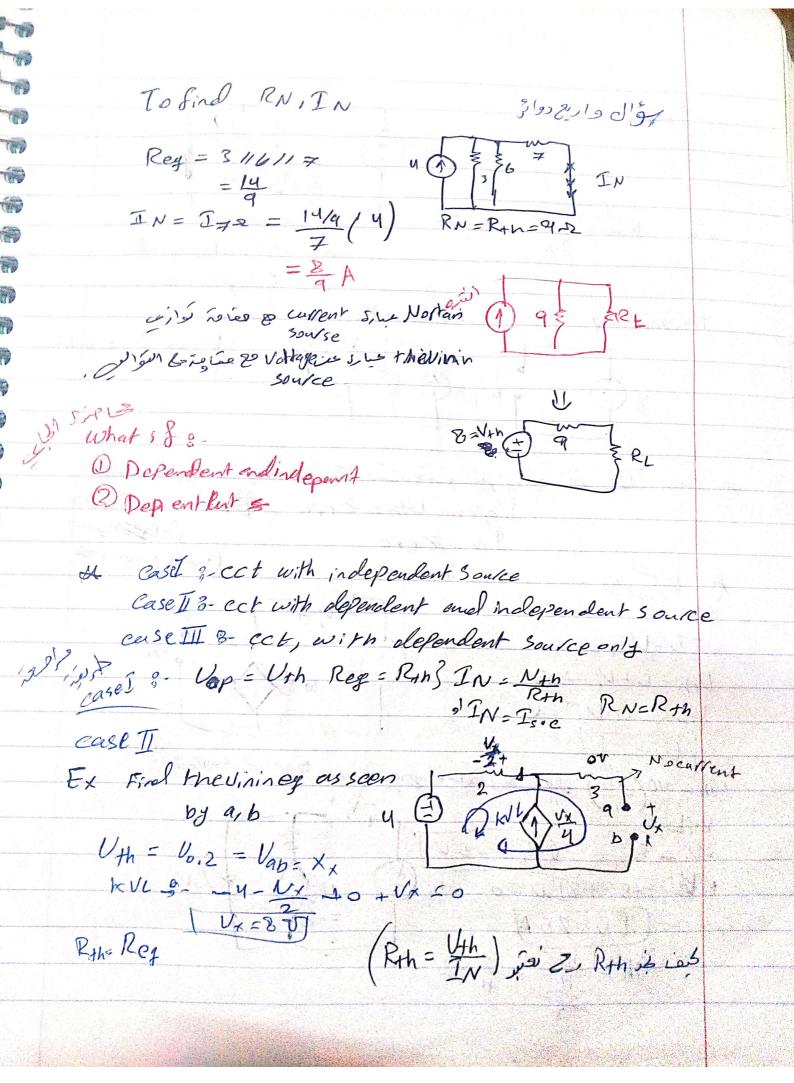
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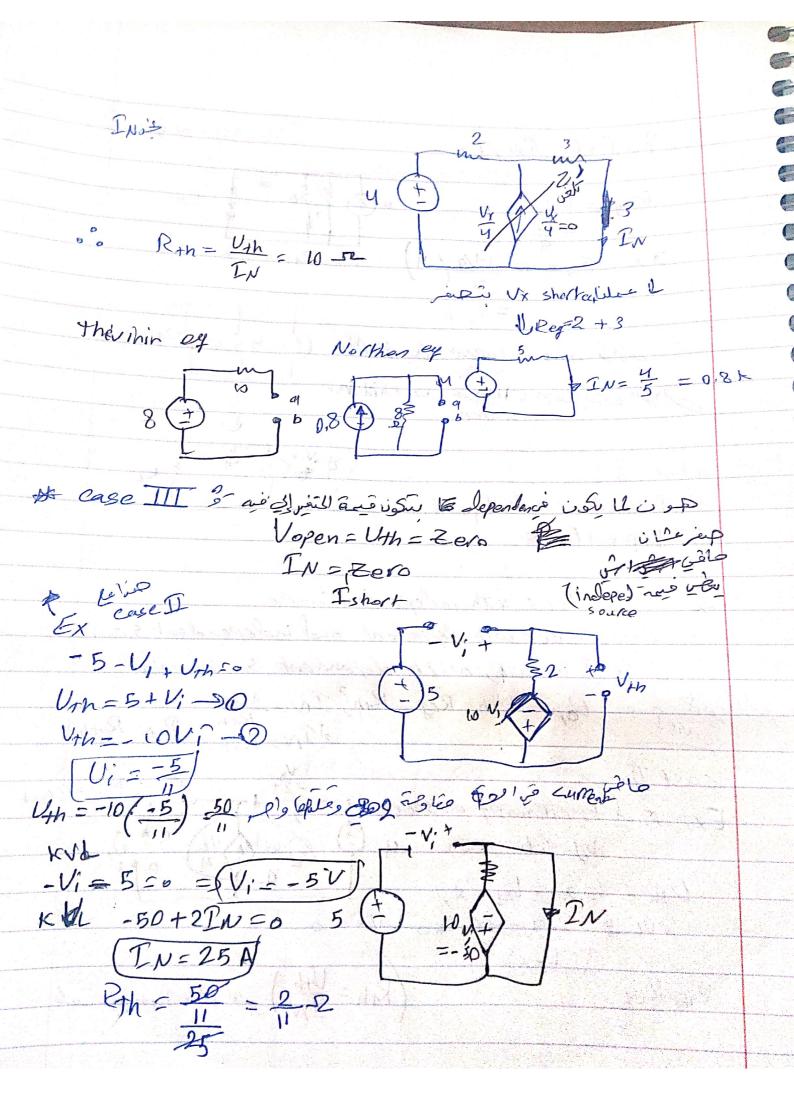


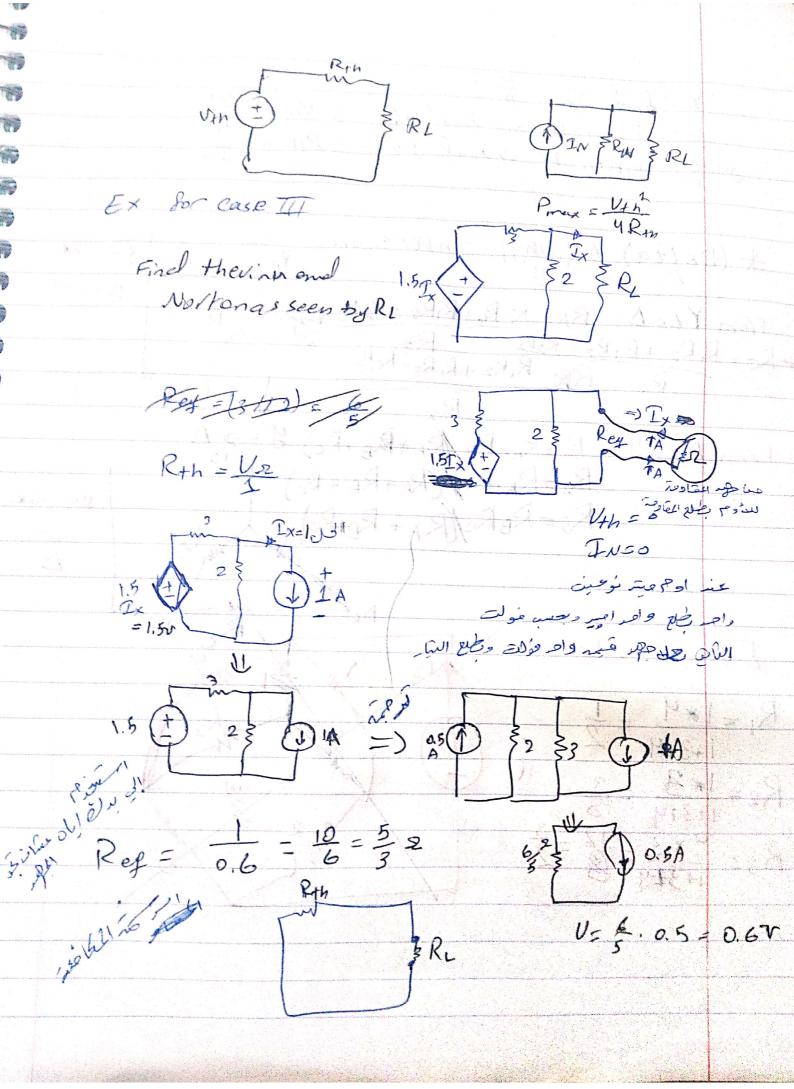




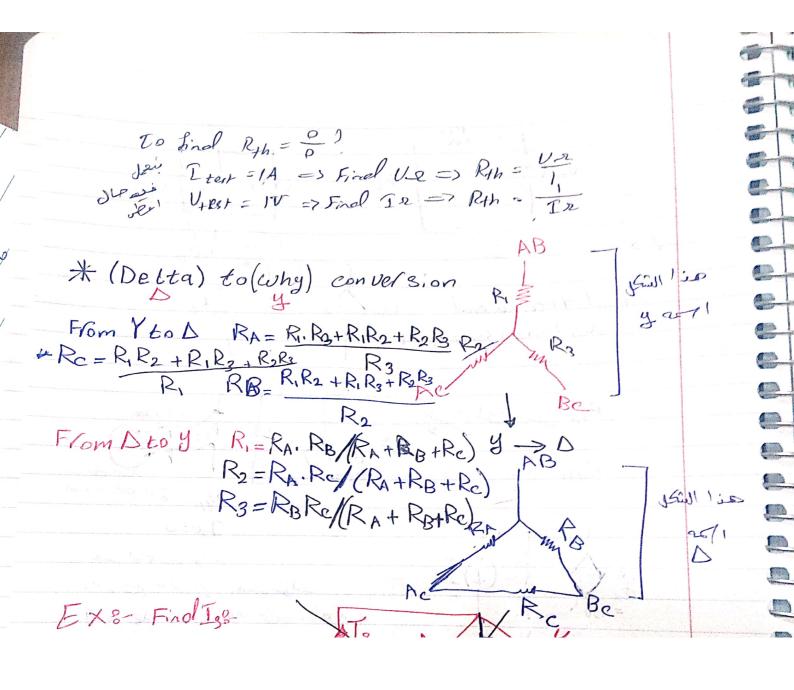


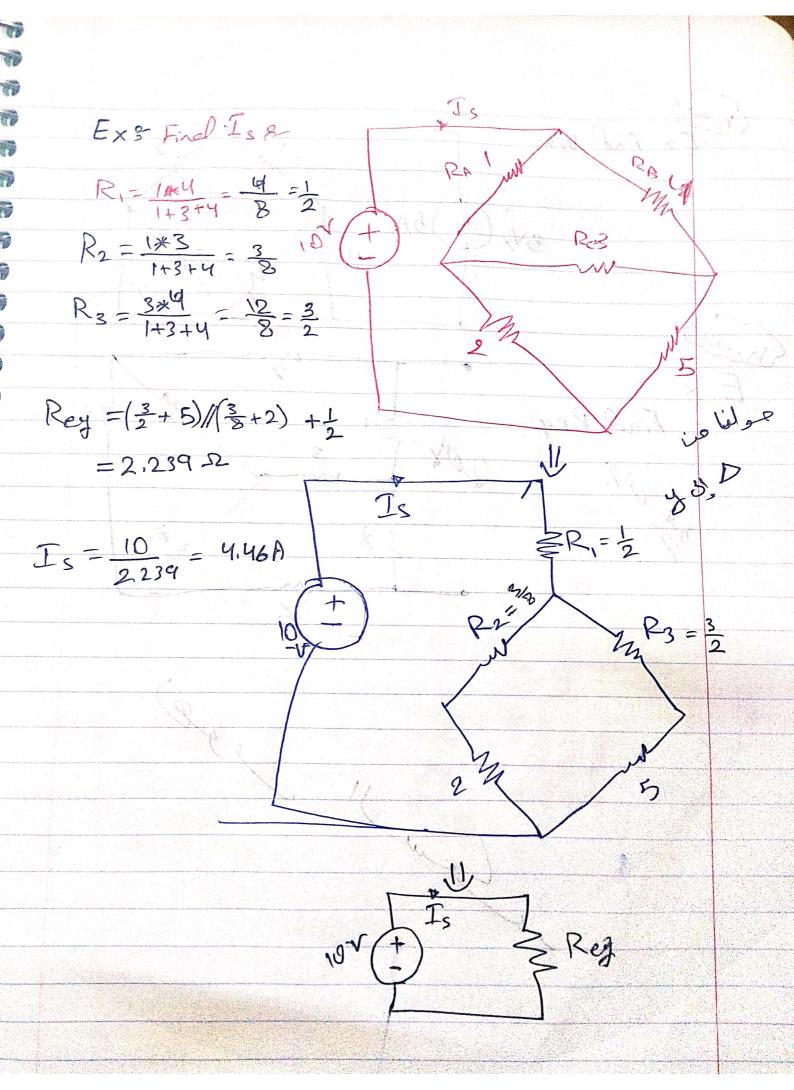


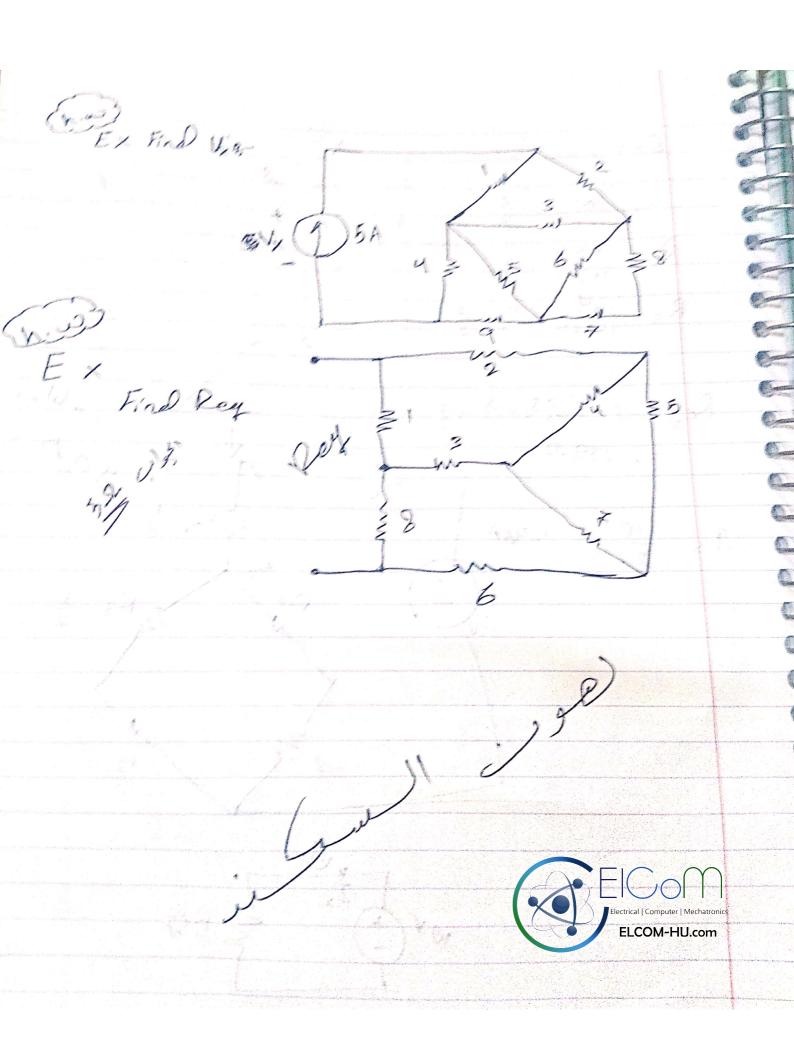




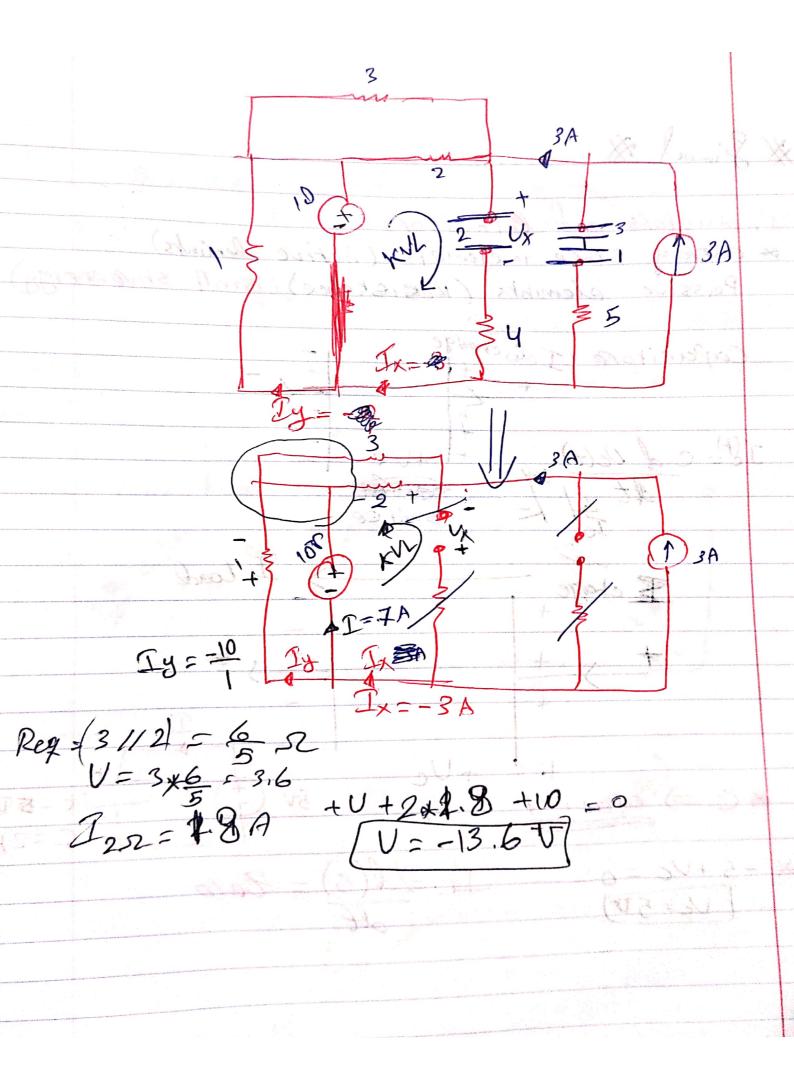
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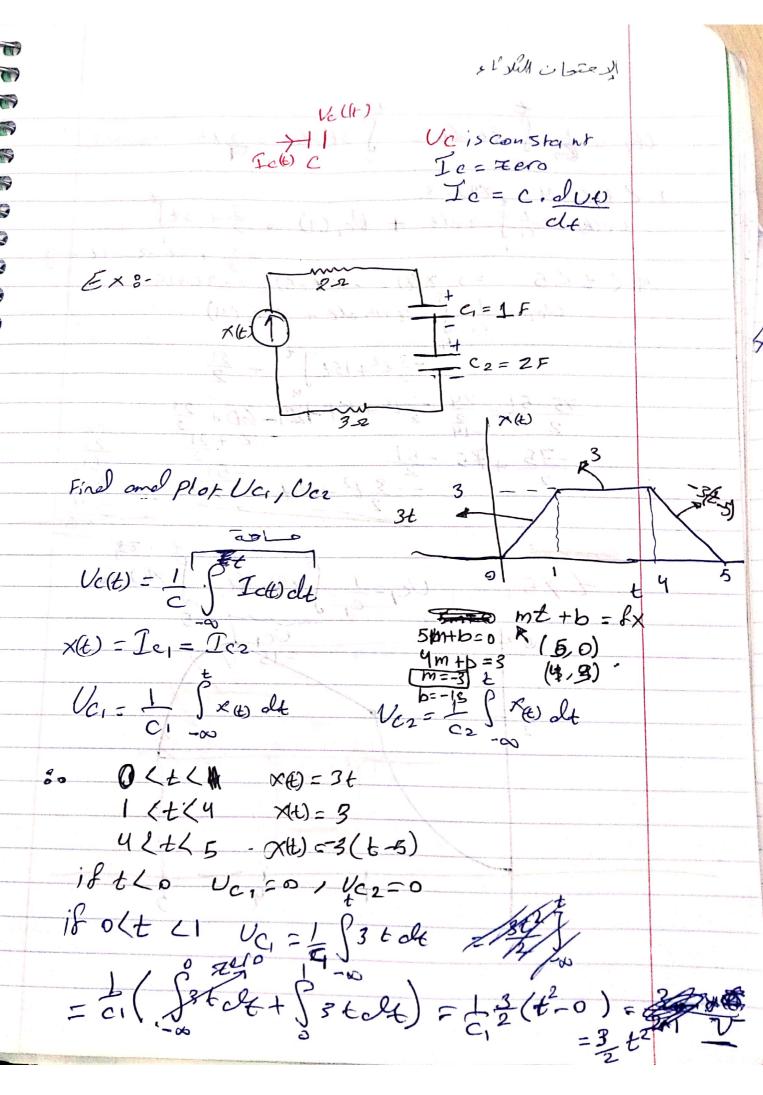




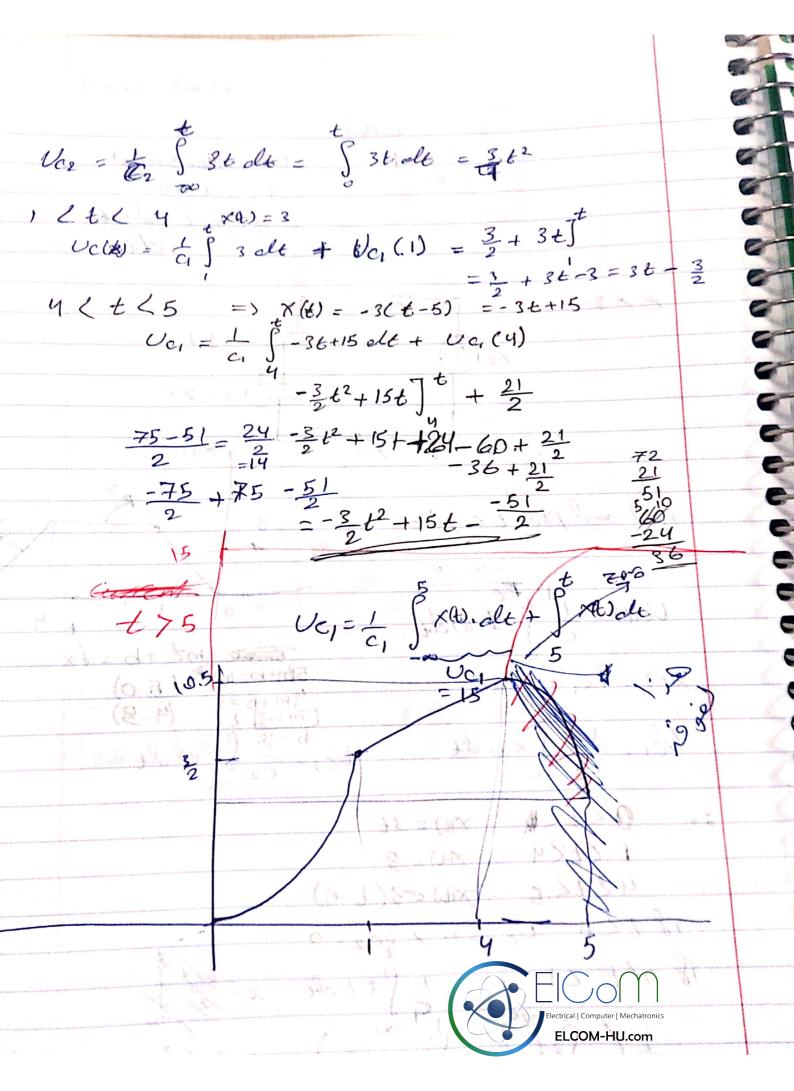


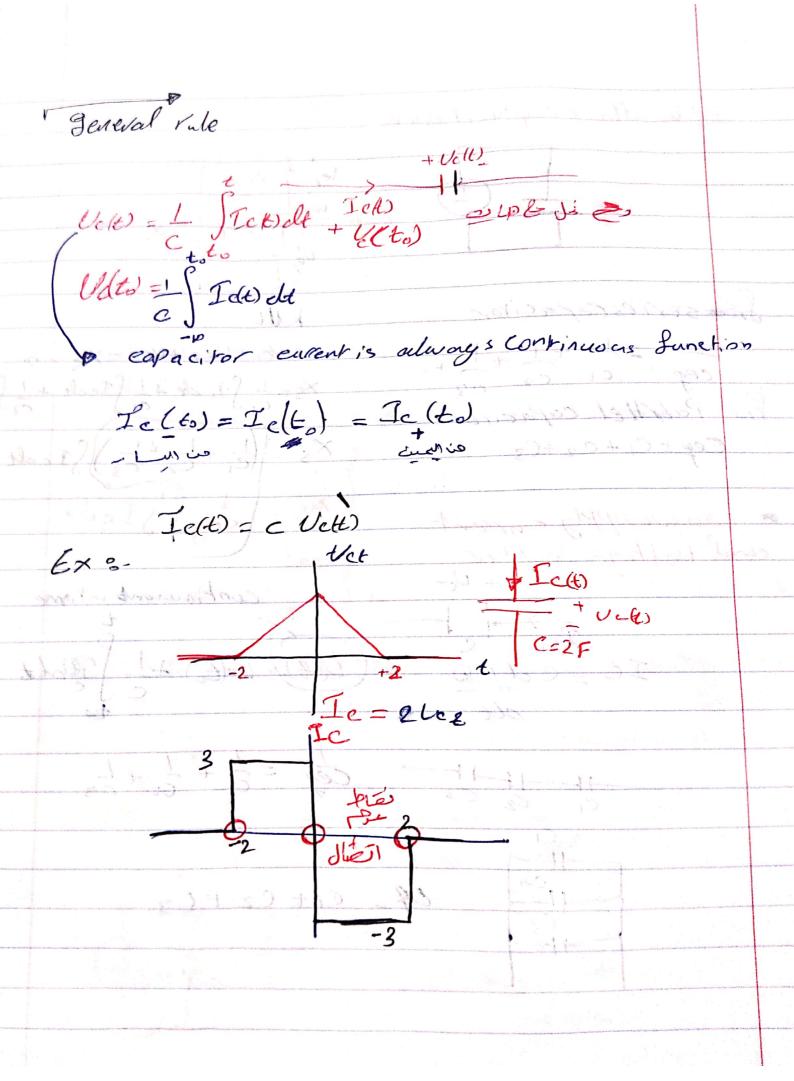
* Sinal * Inductors and Rapacitors Passive elemints (Résistance) (aunit store energy) Capacitore I discharge $I_{e}^{(t)} = c \frac{d U_{e}(t)}{dt}$ $I_{e}^{(t)}$ $I_{e}^{(t)}$ $I_{e}^{(t)}$ $I_{e}^{(t)}$ satree I load Ic = 2d(5) = Zero Vc=50

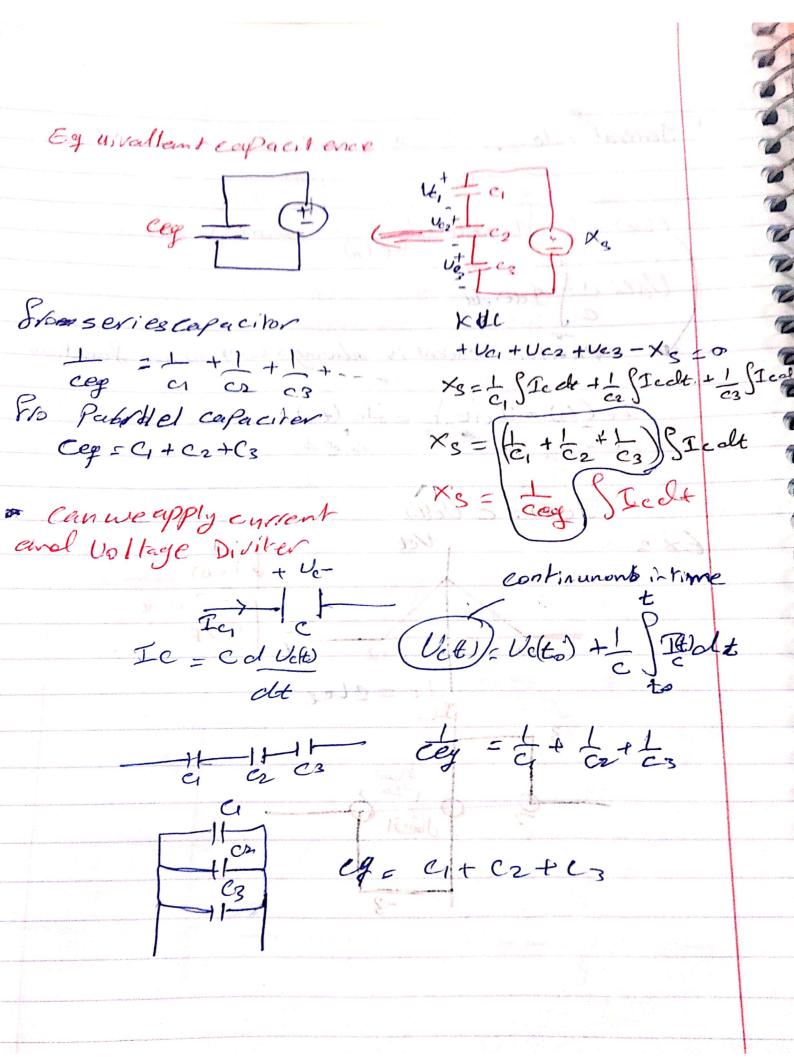




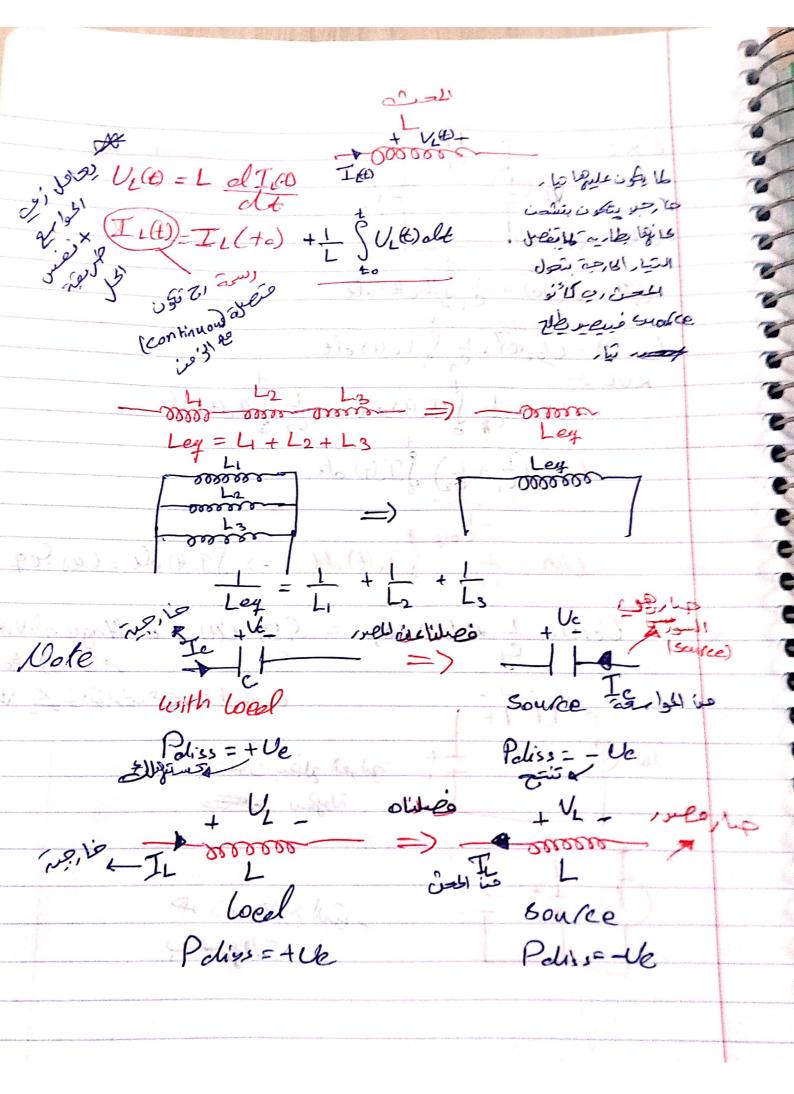
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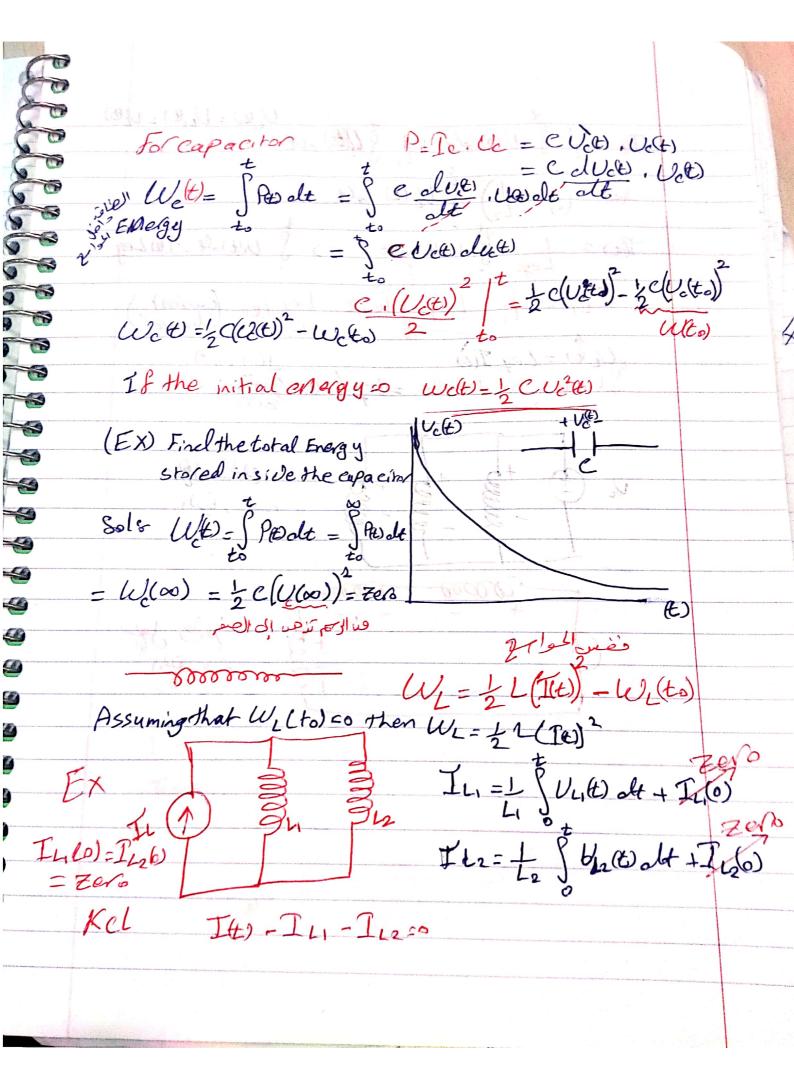


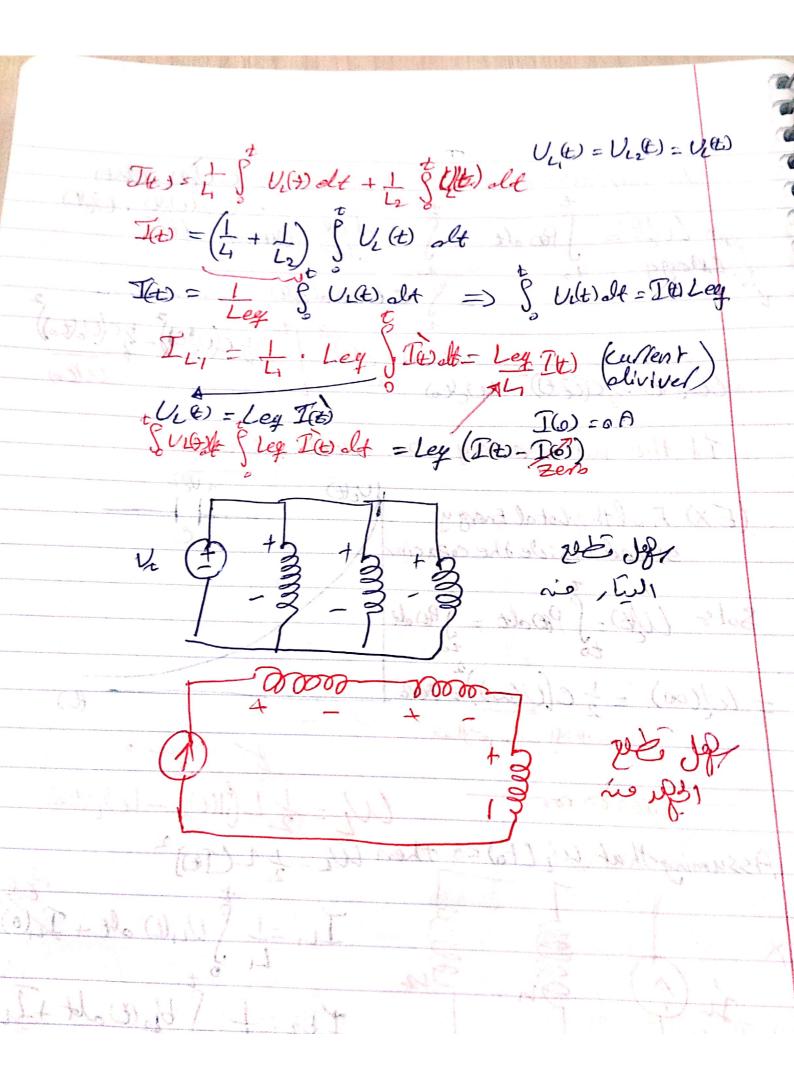


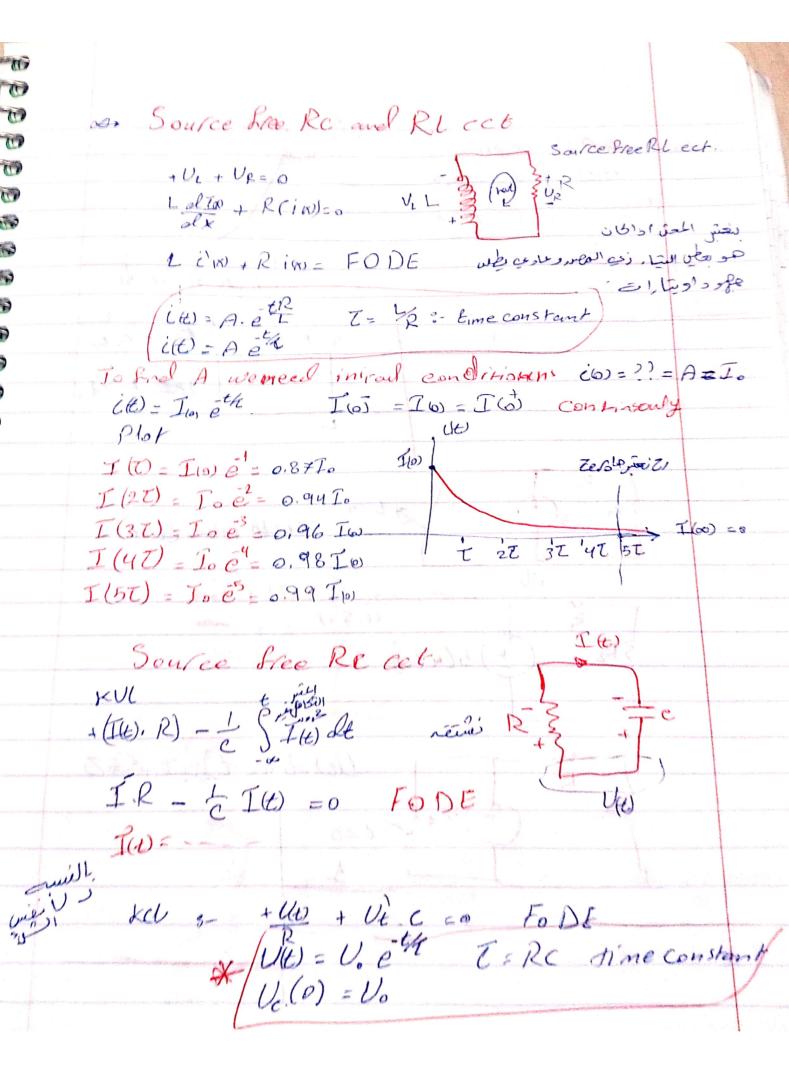


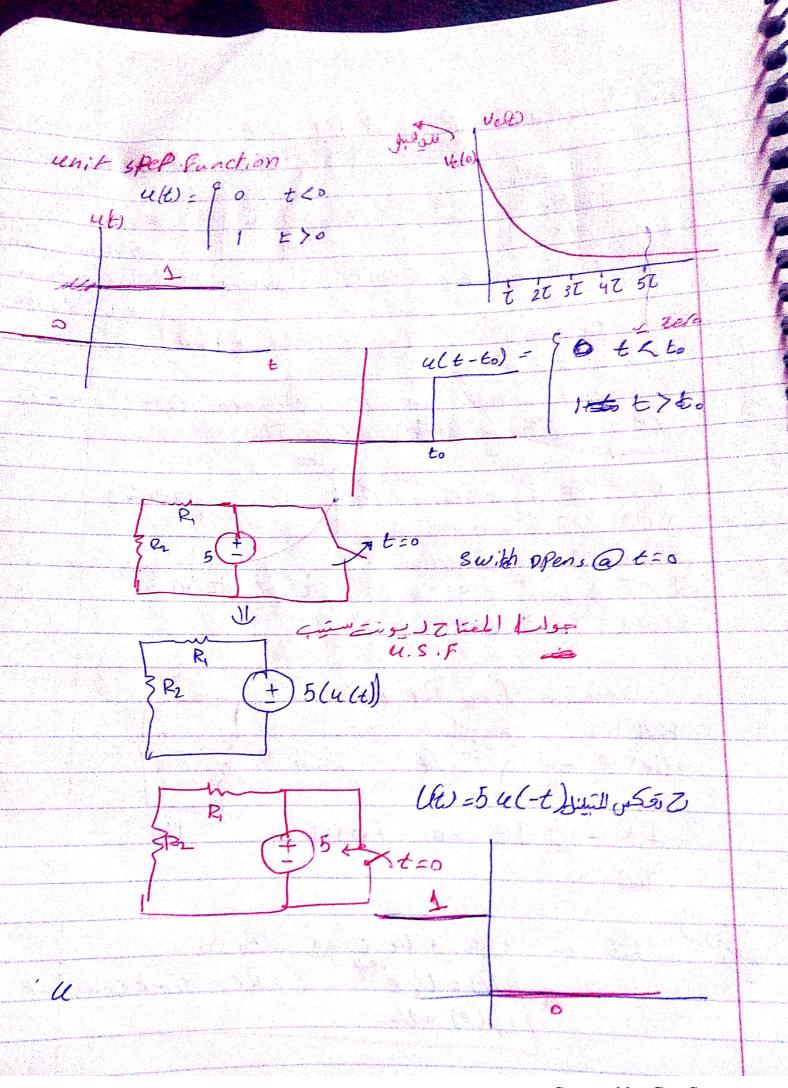
Uc, 6) = U26) =0 Upt= Up(0) + + SIcto alt Ucz(t) = Vezes + & SIc(+) dt - UE + t & Ict dt + L & Ict dt =0 (4) = (1, + 1) & Ich alt U(0 = L . STe(t) dt => SIct) elt = UE Seq Ucht = 1 x Ut ceg = Cey Ut / Wolfage alivier current some of 15 15 5. V



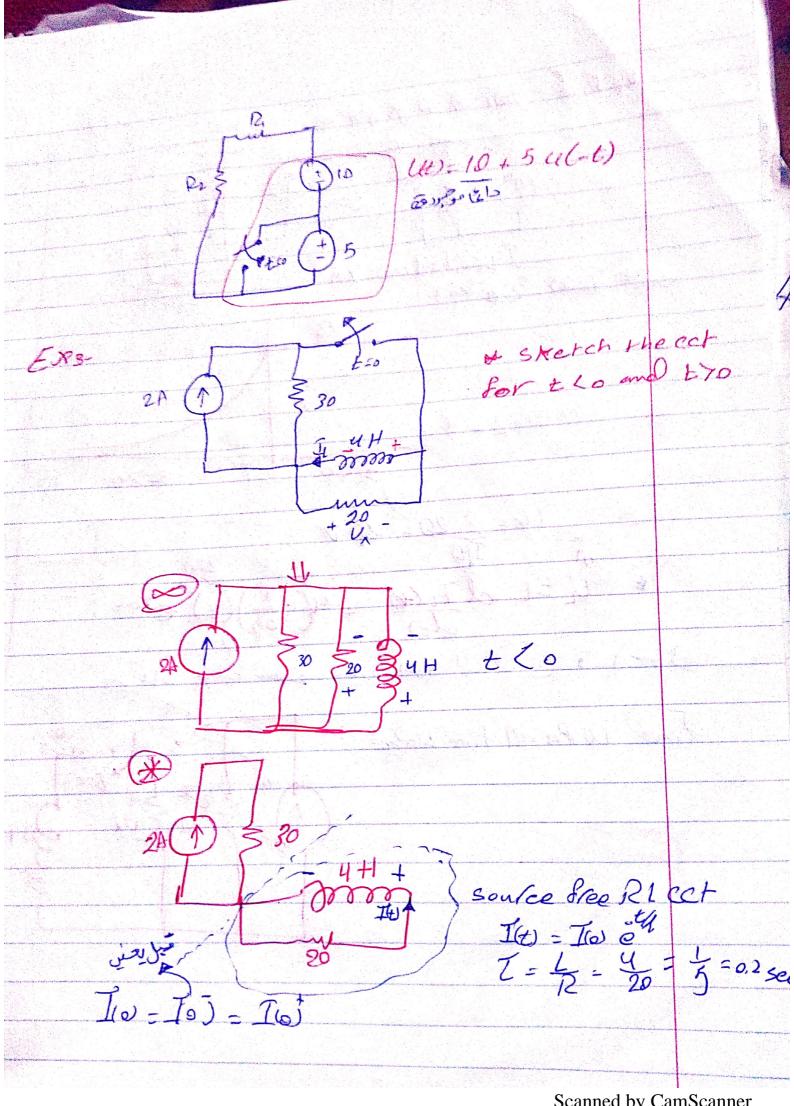




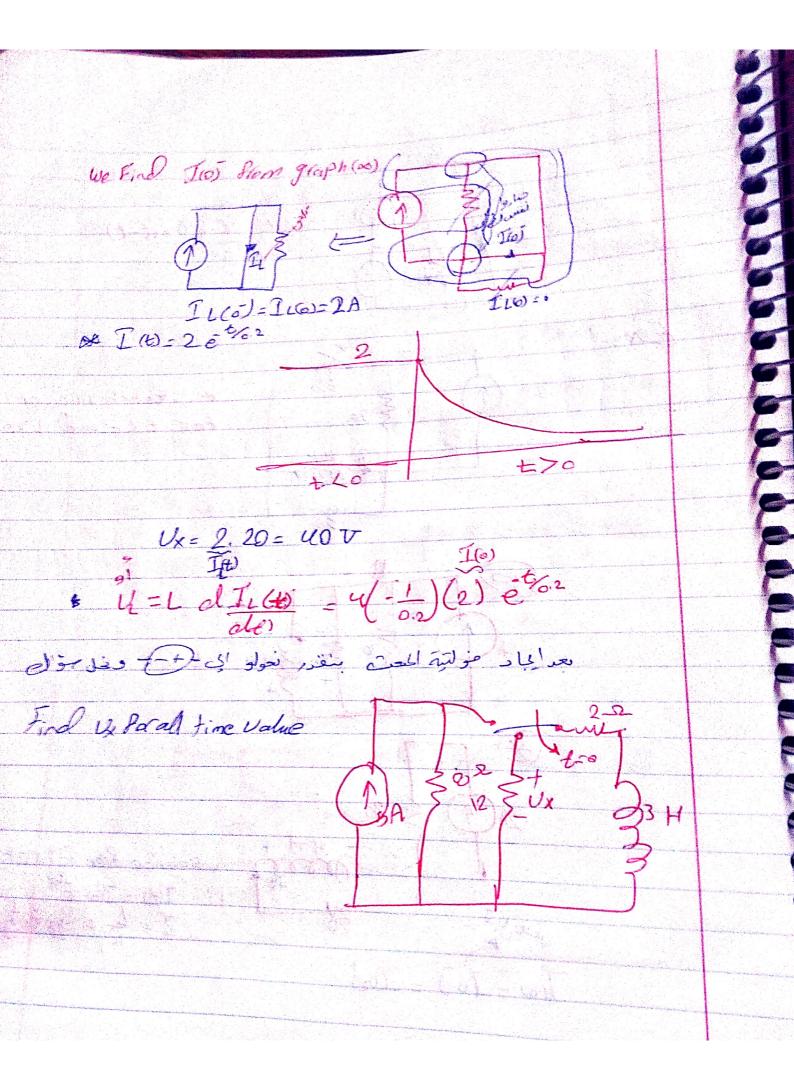


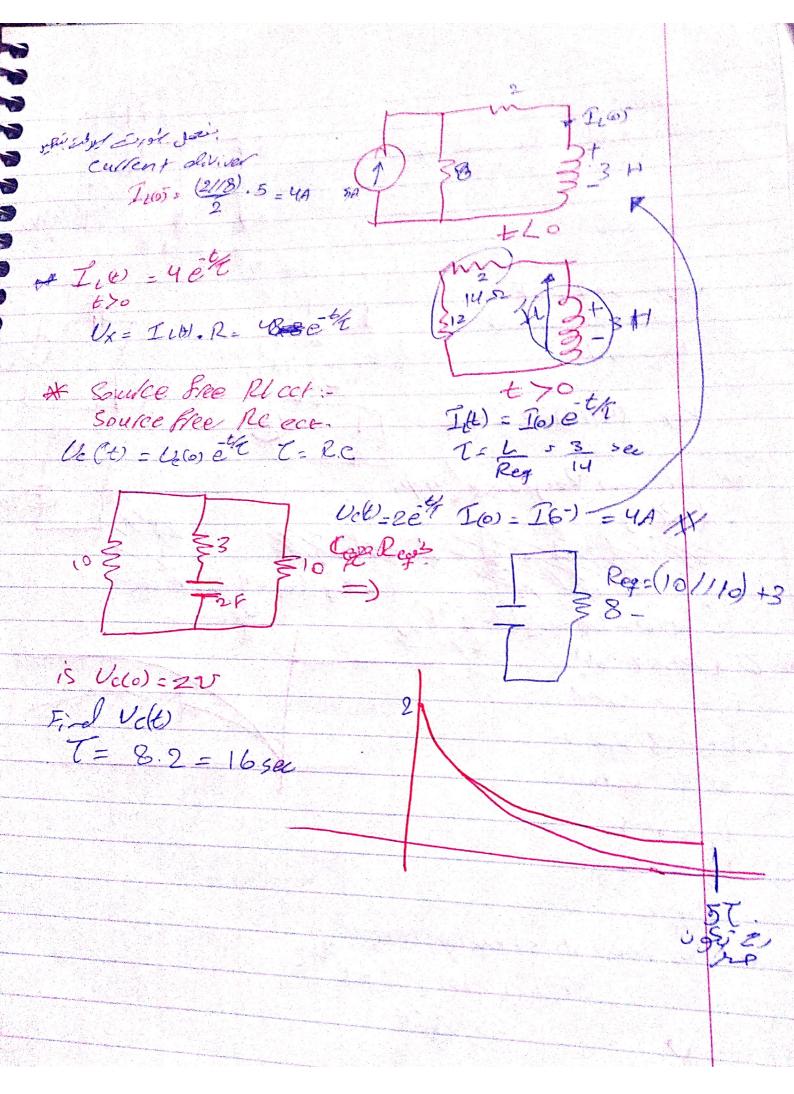


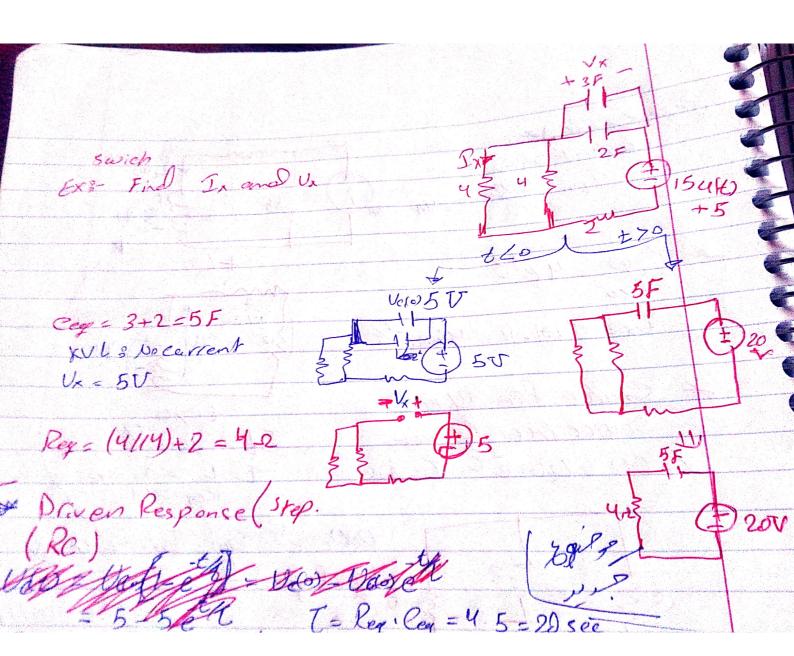
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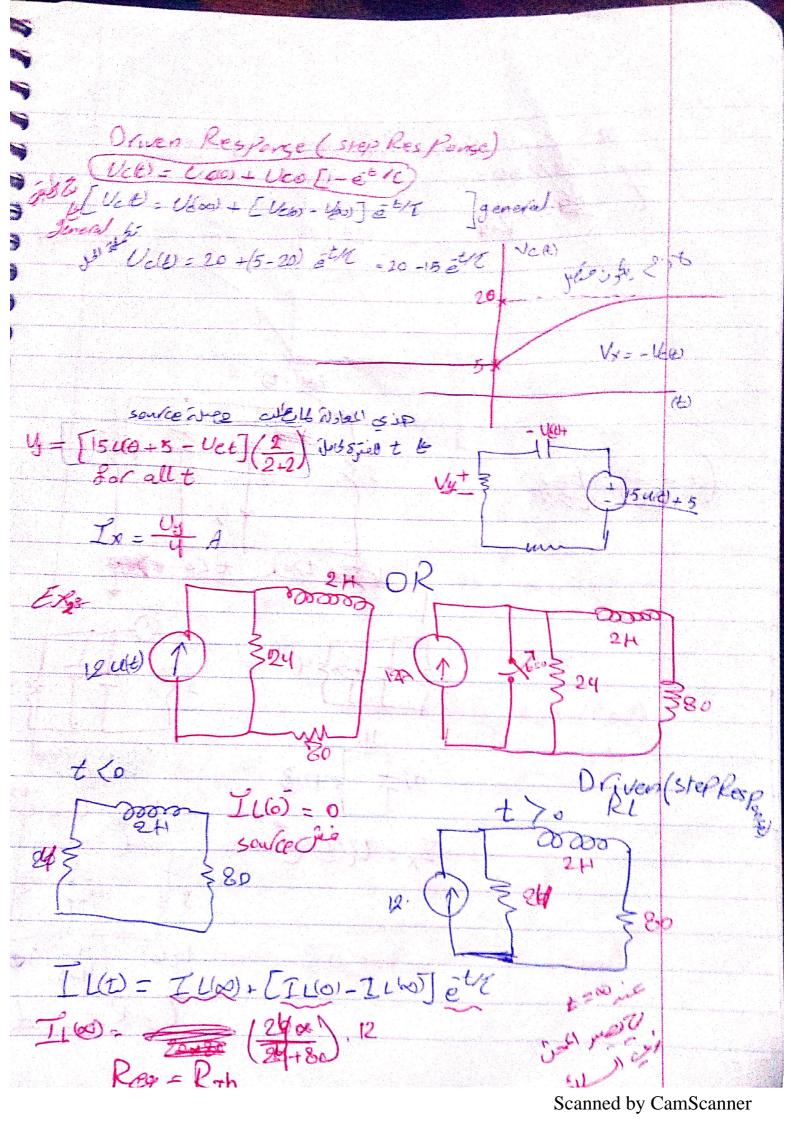


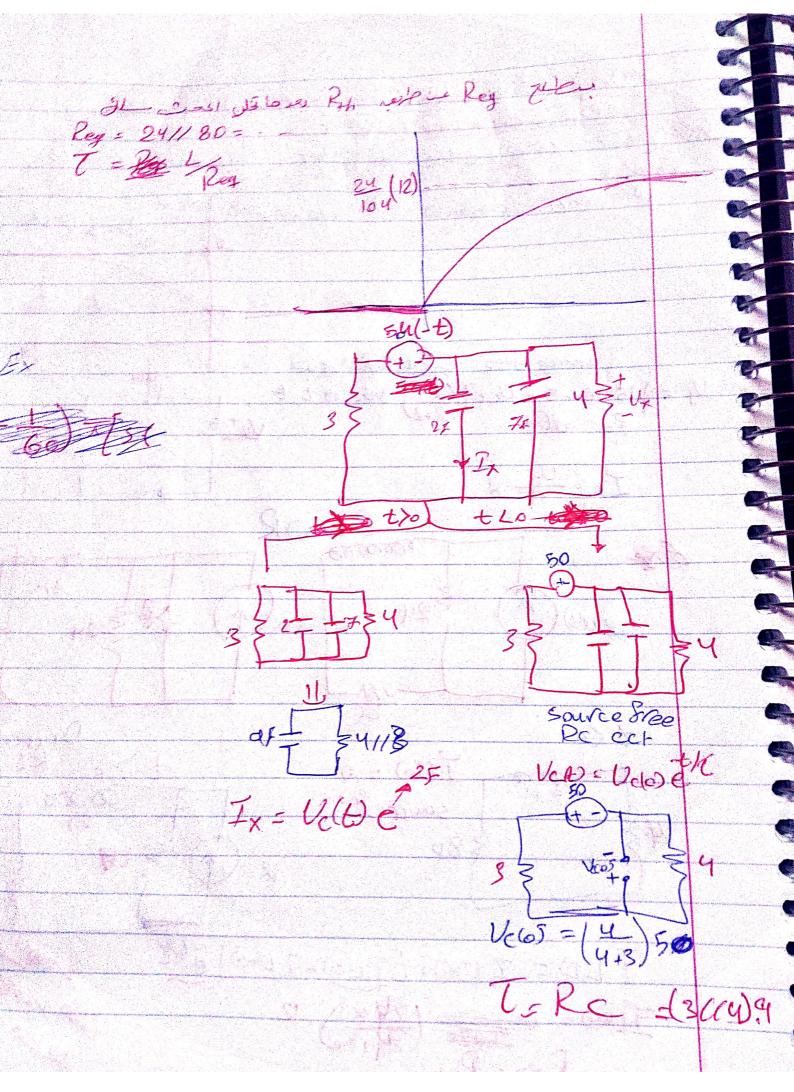
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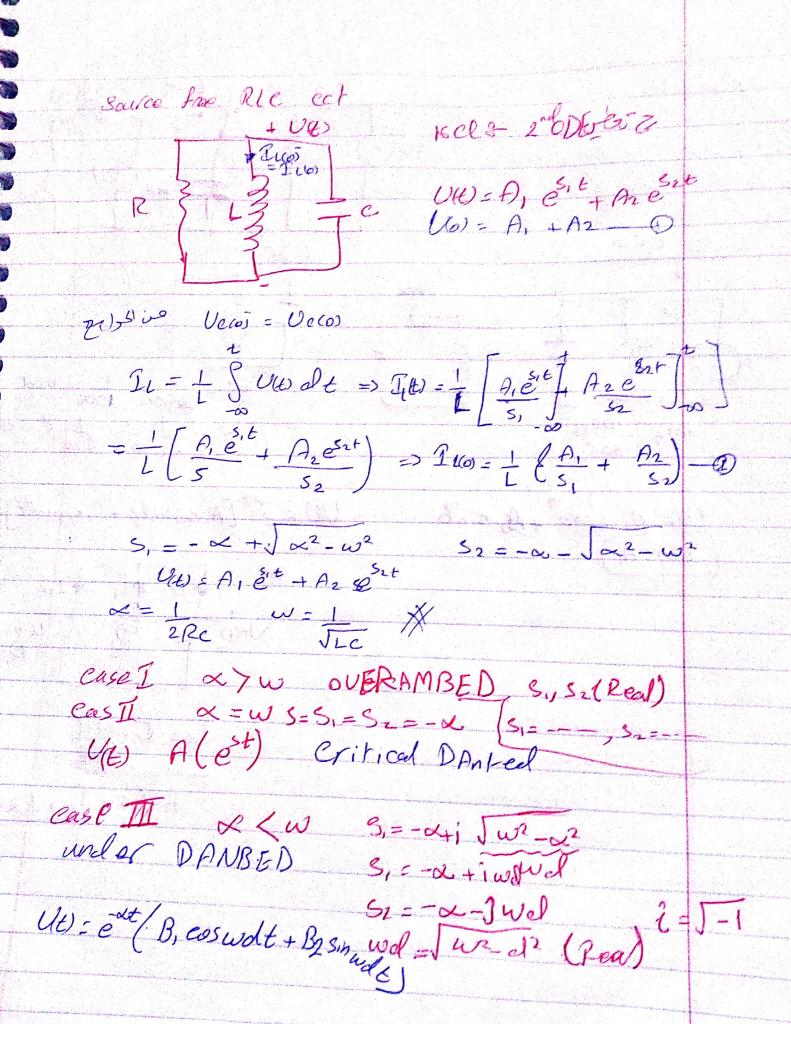


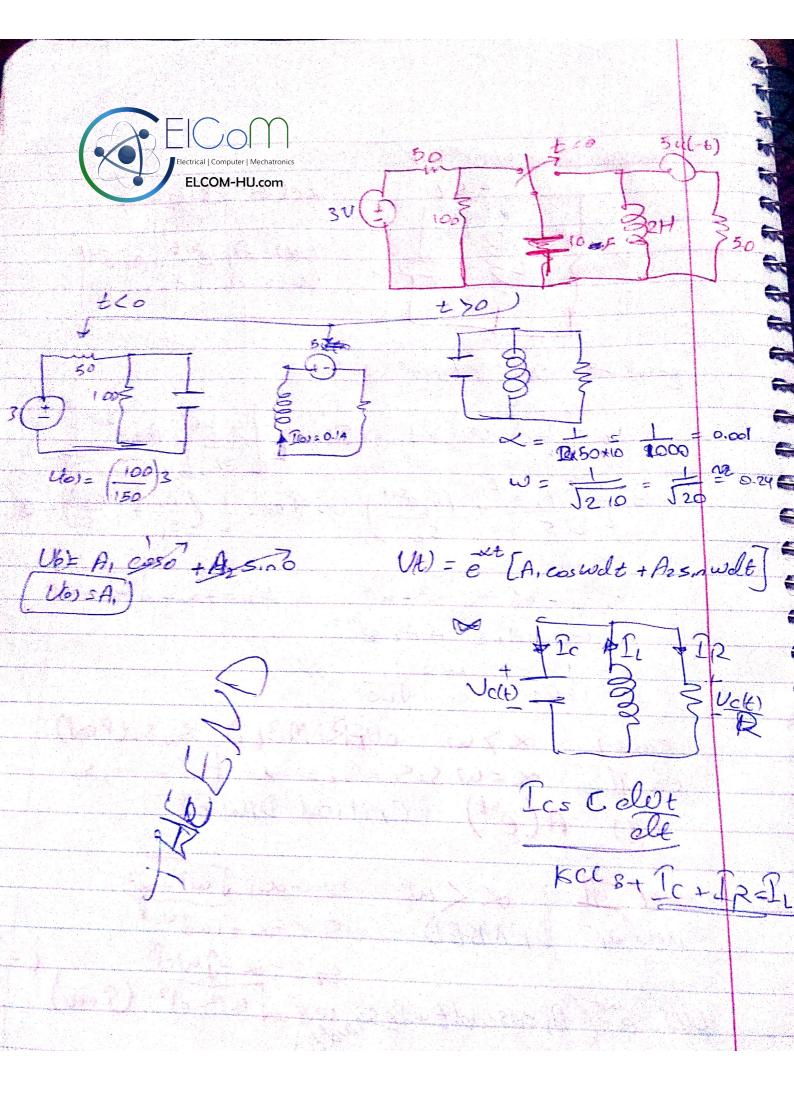






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