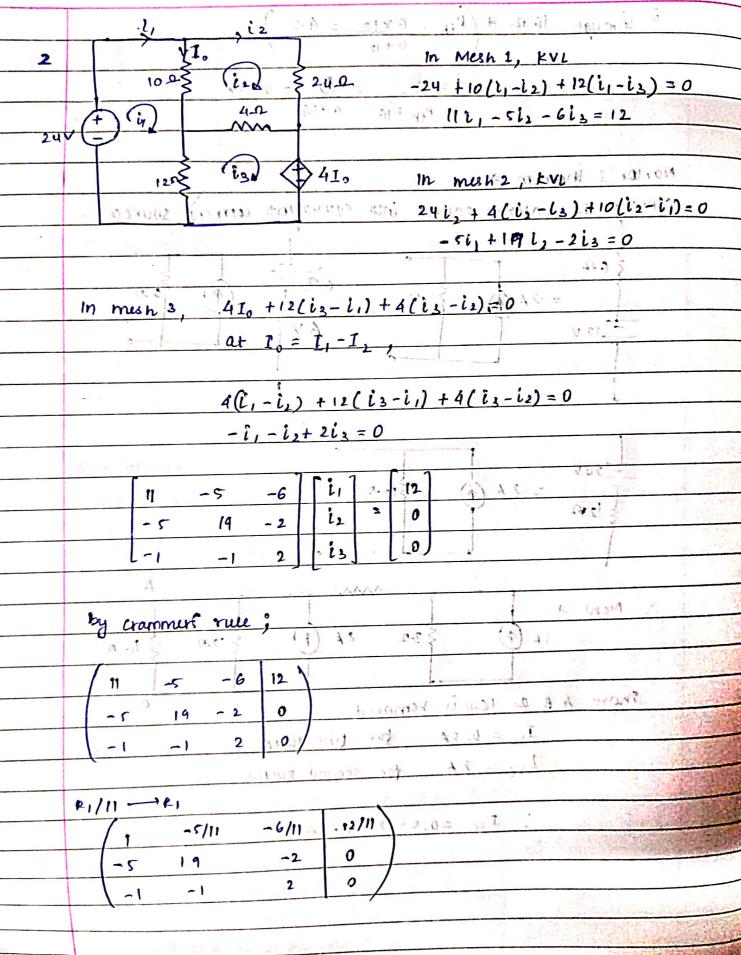
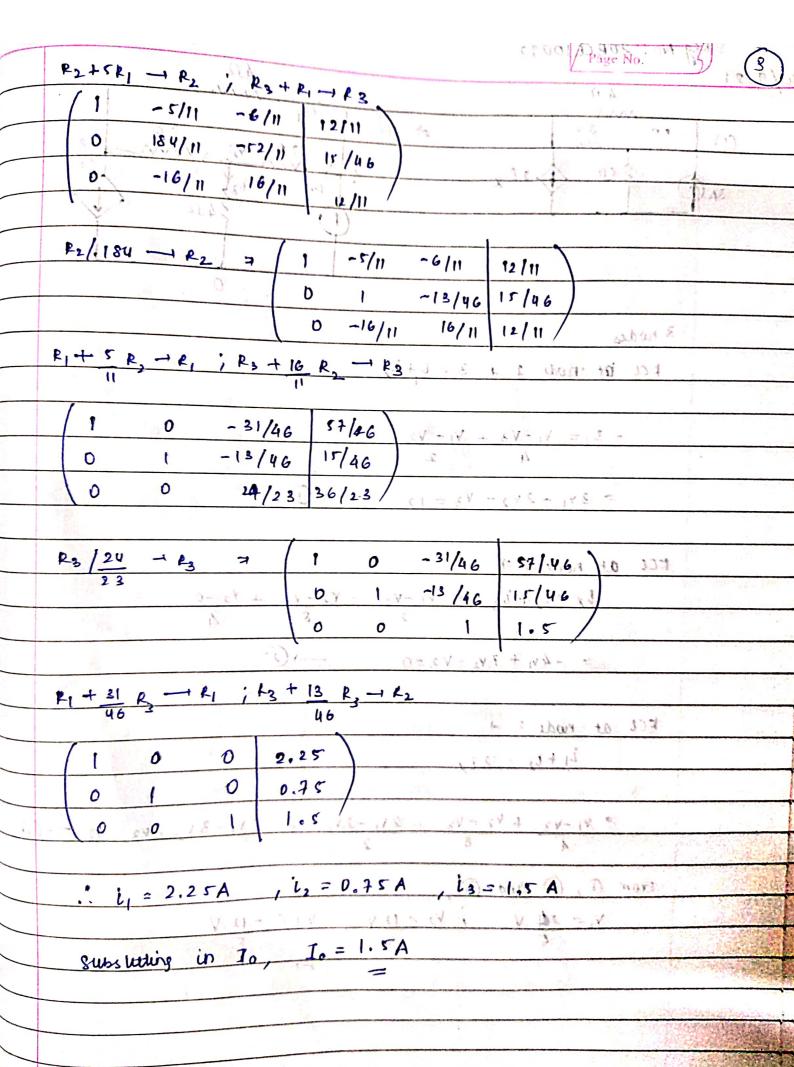
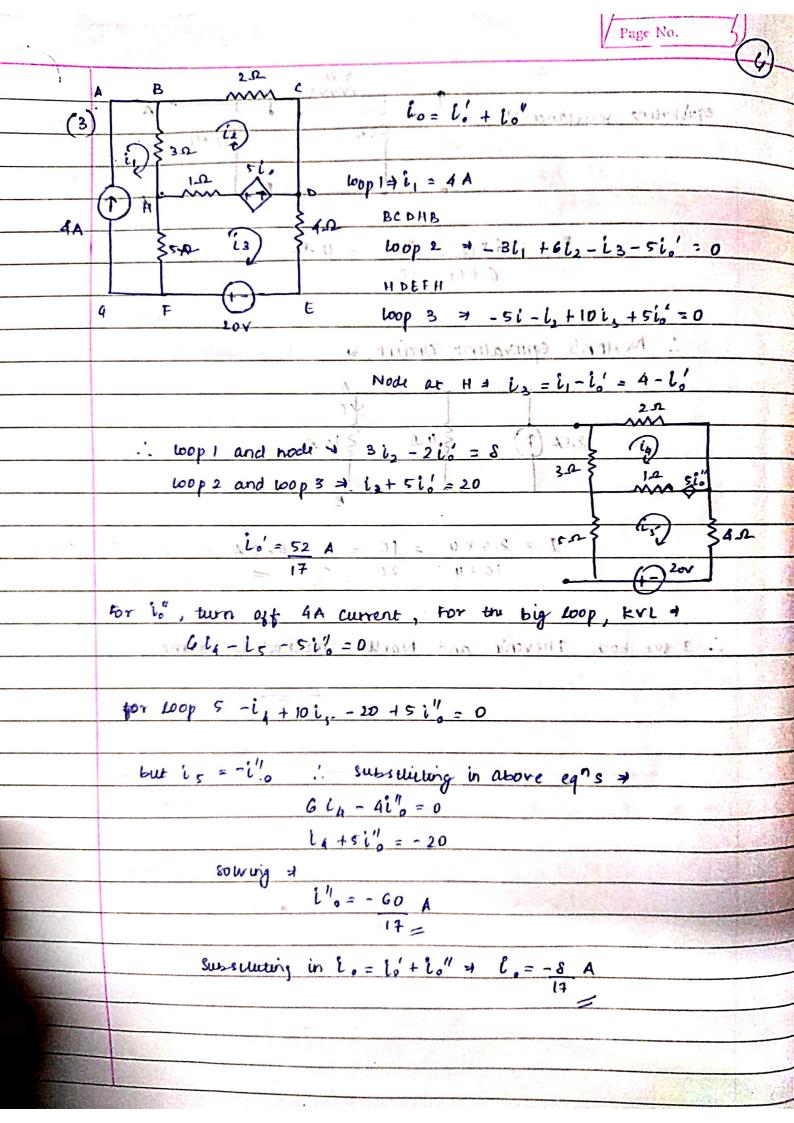
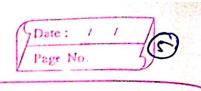
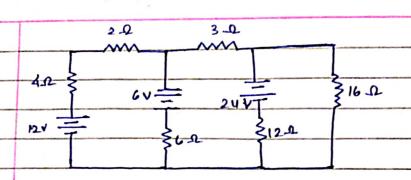
Stot ! EEE 1001 / E.II Name: Ananya Prasad Faculty: Soumilra Sir Reg No: 20BCE10013 30/9/21 11. 1. ASL 11. 11. 11. 11. 22 (1) 12Lx 01/31-3 rodes Ecc of node 1 = 3 = 0 + 12 - 1 $= 3 = \frac{V_1 - V_3 + V_1 - V_2}{4} = \frac{3 \sqrt{71}}{3 \sqrt{71}} = \frac{3 \sqrt{$ $= 3v_1 - 2v_2 - v_3 = 12$ KCL at node 2 = 30/15- 0 1 $l_{x} = l_{x} + l_{x} = l_{x$ $= -4v_1 + 7v_2 - v_3 = 0$ FCE at node 3 + 11+1, = 2 ix 25.0 0 $\frac{7 V_1 - V_3}{4} + \frac{V_2 - V_3}{8} = \frac{2 V_1 - 2 V_2}{2} \Rightarrow \frac{2 V_1 - 3 V_2}{4} + \frac{V_3}{8} = 0 \Rightarrow 0$ From O, (2) and (3), A 25. $V_1 = 24 \ V$ $V_2 = 12 \ V$ $V_3 = -12 \ V$ $V_4 = -12 \ V$ $V_5 = -12 \ V$ $V_5 = -12 \ V$











Therenin's Theorem =

4

remove the 16 a resistor and find V.

From (1) and (2),
$$6I_1=7$$
; $I_2=\frac{7}{6}$

$$\frac{1}{6} = \frac{1}{6} = \frac{11}{12} = \frac{1}{6}$$

$$V_{CD} = -127 + 24 = -12 \times 7 + 24 = 10 \text{ V}$$

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