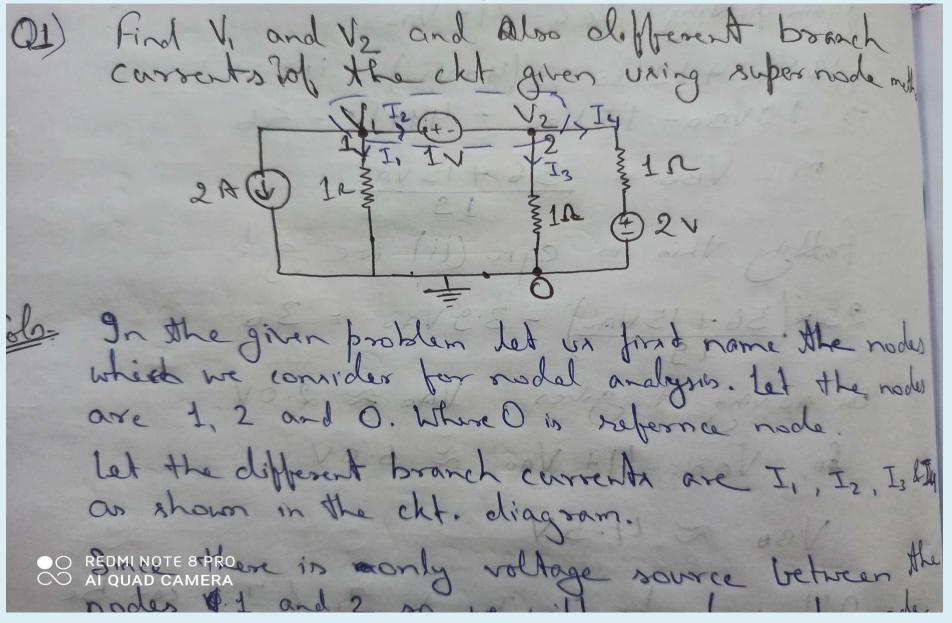
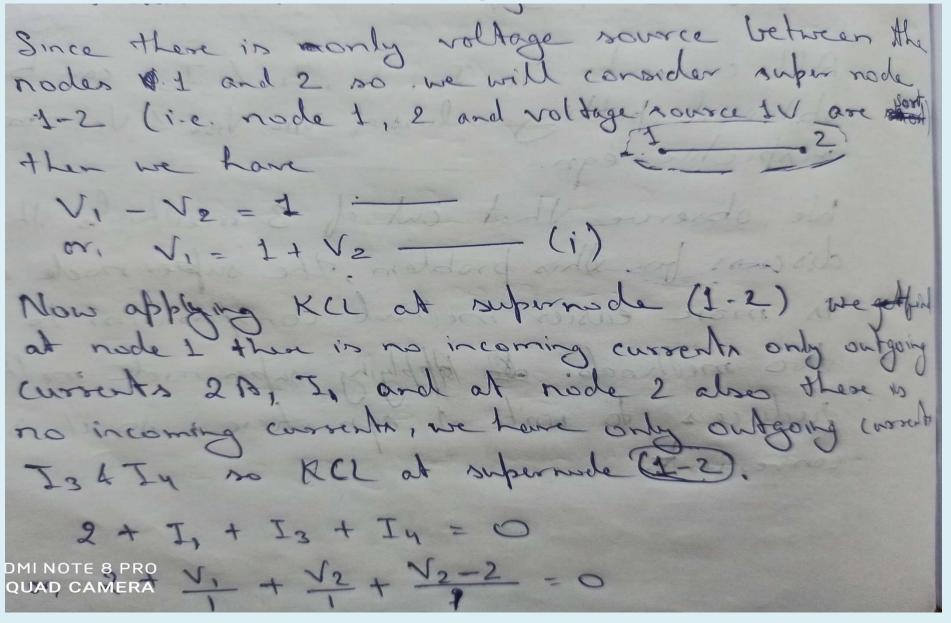
Paper 1, TDC Part-1 Chapter— 3, Mesh and Node Analysis Nodal Analysis - 6

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or,
$$2 + \sqrt{1 + \sqrt{2} + \sqrt{2}} = 0$$

| publing $\sqrt{1 + \sqrt{2} + \sqrt{2}} = 0$ = $\sqrt{2} = -1/3$

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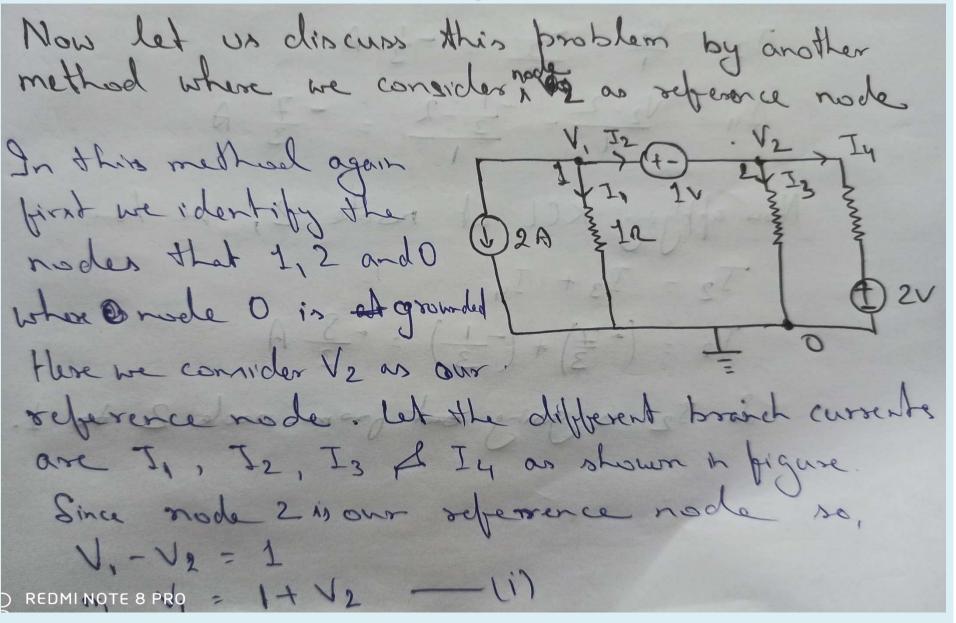
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His we get V, so no need to write KCL for V. Now our other node is O. So applying KCL at O. 2 + I, + I3 + In = 0 2 + 1 + 12 + 12 = 0 2+(Vg+1) + V2+ V2=2 = 0 [Publing V,= V2. 3 V, + 1 = 0 V2 = - 1/3 then V,= 1- = 2/3 Le the different prouch consents are REDMI NOTE 8 PRO
AI QUAD CAMERA

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3
- 2
3

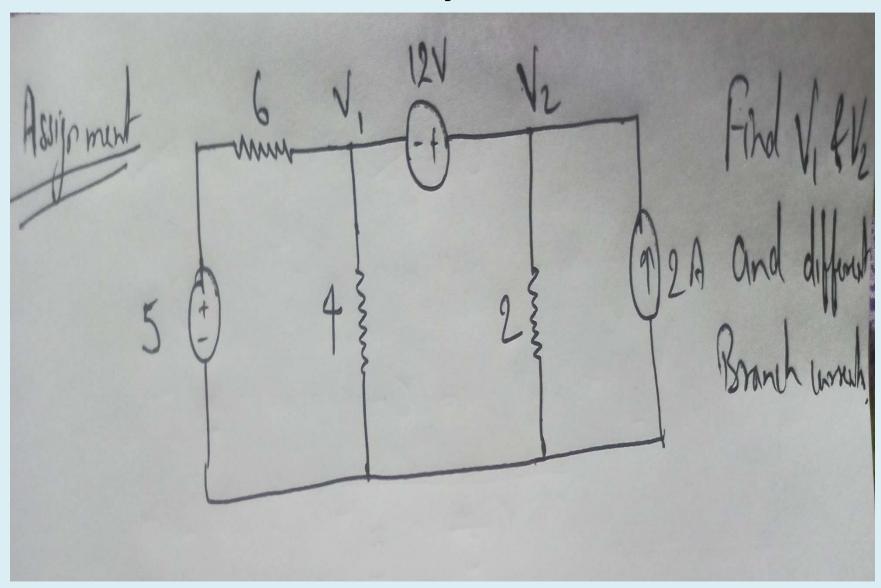
So the different branch consents are

$$T_1 = \frac{V_1}{1} = \frac{2}{3} = -\frac{1}{3} A$$
 $T_3 = \frac{V_2}{1} = -\frac{1}{3} - \frac{1}{3} A$
 $T_4 = \frac{1}{2} - \frac{1}{3} - \frac{1}{3} A$

Now applying KCL, at node 2, we have

 $T_2 = T_3 + T_4$
 $T_2 = (-\frac{1}{3}) + (-\frac{1}{3}) = -\frac{8}{3} A$

do T_2 is going at from node 2 to 1.



For any query contact- 9771474020

Thank You