

$$-10(0^{\circ} + 47 - j + 21 = 0$$

$$-10 + 61 - j = 0$$

$$1 = 10 + j$$

$$V_{H} := -\int_{-1}^{1} + 2I = -\int_{-3}^{1} + \frac{10}{3} + \frac{1}{3} = \frac{10}{3} - \frac{2}{3} \int_{-3}^{3} .$$

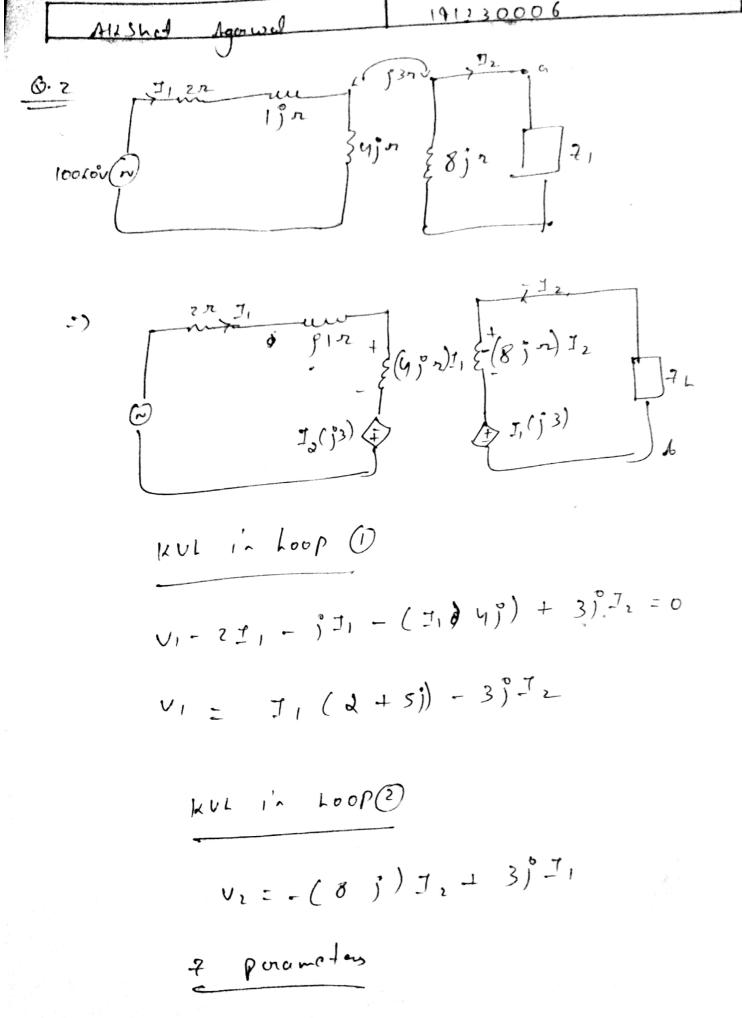
.KUL in loop 1.

1000000

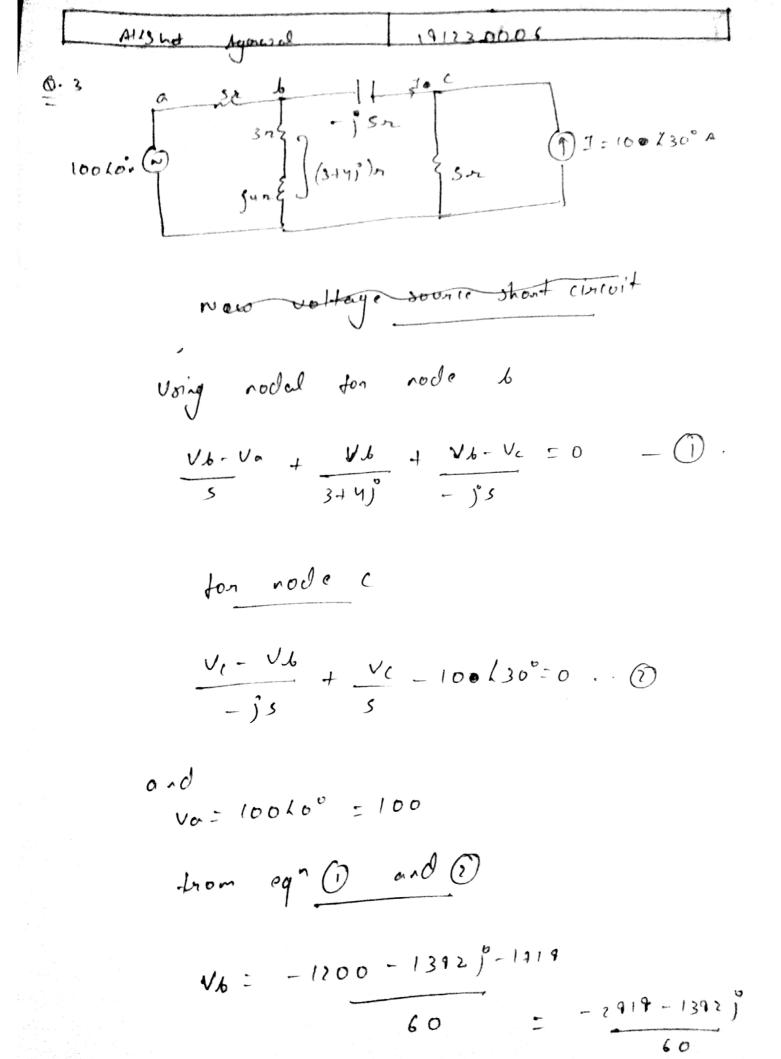
voing I in og " (1) for In

I'm will be some for both thevening and

$$2 + n = \frac{VH}{Jn} = \frac{10 - 92}{3} \times \frac{17}{5(2-9)} = \frac{12}{13} \left(\frac{10-7}{2-9} \right)$$



111110001 Alasket Agreesed (7)= [-3; 3; -3;] 12+ = (2+5;)(.8;) + 9;2 = (-16;-40;-9 171 = 4 = 36]. for maximum power transfer 7: 17/= (-9-56))r. 171 = -16 j + 40 - 19 = 31-16 9 A



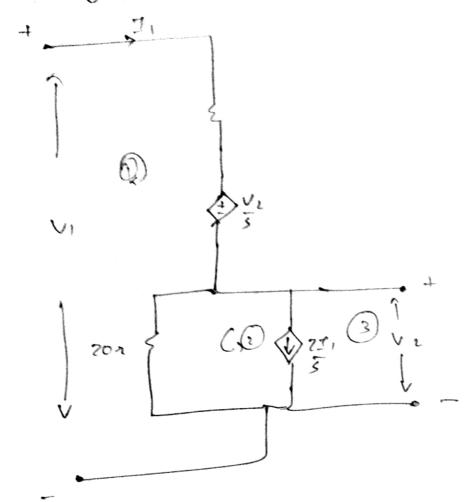
Scanned with CamScanner

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$$V_{i} = -\frac{1000}{60}$$

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KUL in loop 1)

$$-511 - \frac{V_2}{5} - 10(1+11-\frac{21}{5})+V_1=0$$

supermesh in 10 63

$$V_1 = 20 \left(J_1 + J_2 - \frac{7J_1}{5} \right)$$

$$V_1 = \frac{201}{5} + \frac{12}{5} + \frac{20}{5} + \frac{191}{5}$$

comparing we get 7 - perameters

ALShed regones of

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, 121:100 5

$$711 = \frac{7}{171} = \frac{7}{100} = \frac{1}{5}$$
 mho.

$$721 = \frac{-221}{171} = \frac{-12}{100} = -0.12 \text{ who}.$$

$$\gamma_{12} = \frac{-212}{191} = \frac{-24}{100} = -0.24 \text{ m/o}.$$

$$[7] = \begin{bmatrix} 0.2 & -0.14 \\ -0.12 & 0.174 \end{bmatrix}$$