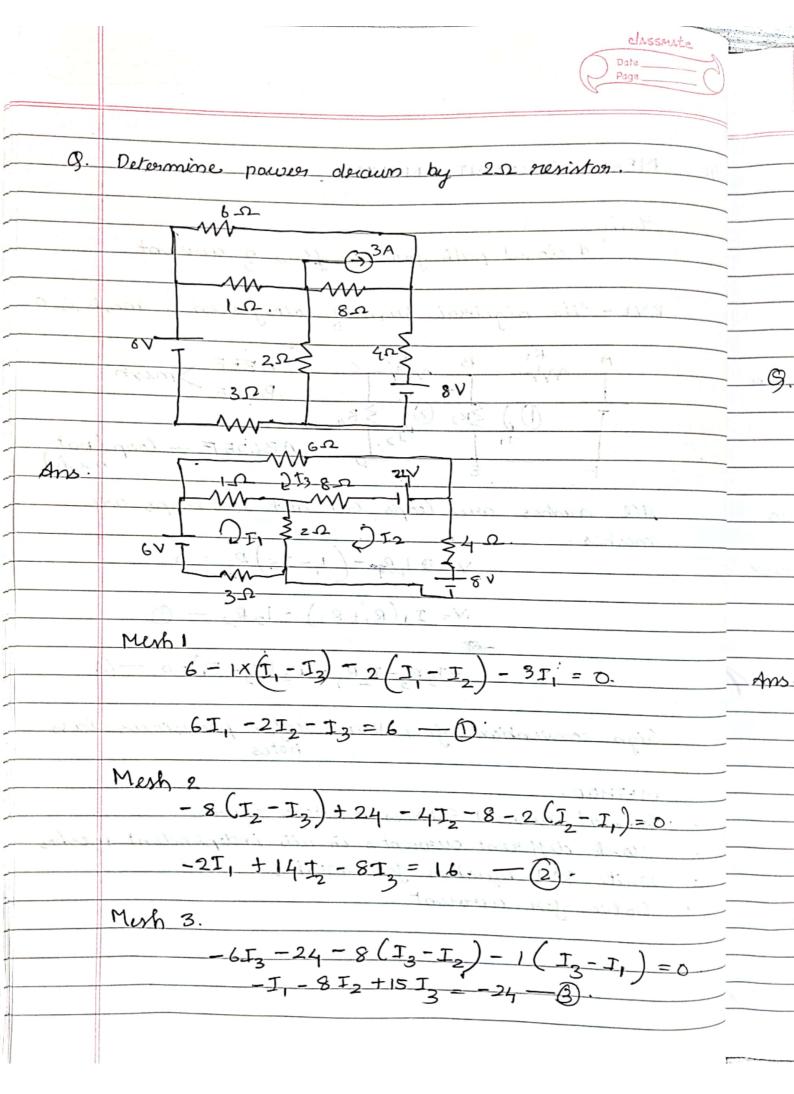
6/11	MEGH CURRENT ANALYSIS
	Mesh
	A closed path for the glow of averent.
	KVL - The algebraic sum of voltages in a mesh is a
	A R_1 B R_2 C ABEF BCDE mush. BCDE ABCDE A
	F E ABCDEF - loop (not mush)
	All meshes are loops but not all loops are meshes: $V = \mathbb{E}[1, R] - (1 - \mathbb{E}_2) R_2 = 0.$
	$V = I_1(R_1 + R_2) - I_2R_2 - 0$
	-ST - I ₂ R ₃ -I ₂ R ₄ -R ₂ (T ₅ -I ₁)=0 - ②
	Sign conventions jour KVI - refer previous class
	METHOD:
	convert auvent Sources to voltage source Mark different auvents in all independent meshes
	Weite KVL equation Jose merkes
•	Solve Jon auvent.
	= (T - 2) = (T - T) = (T - T) = T

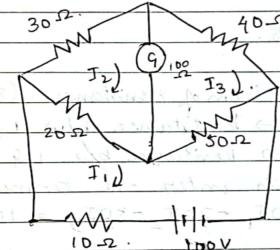




Solver D, C	9 5 3
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$$I_2 = 0.587A$$
. = $(0.99 - 0.587)^2 \times 2$.

9. Determine the aurorent thorough the Galvanometer

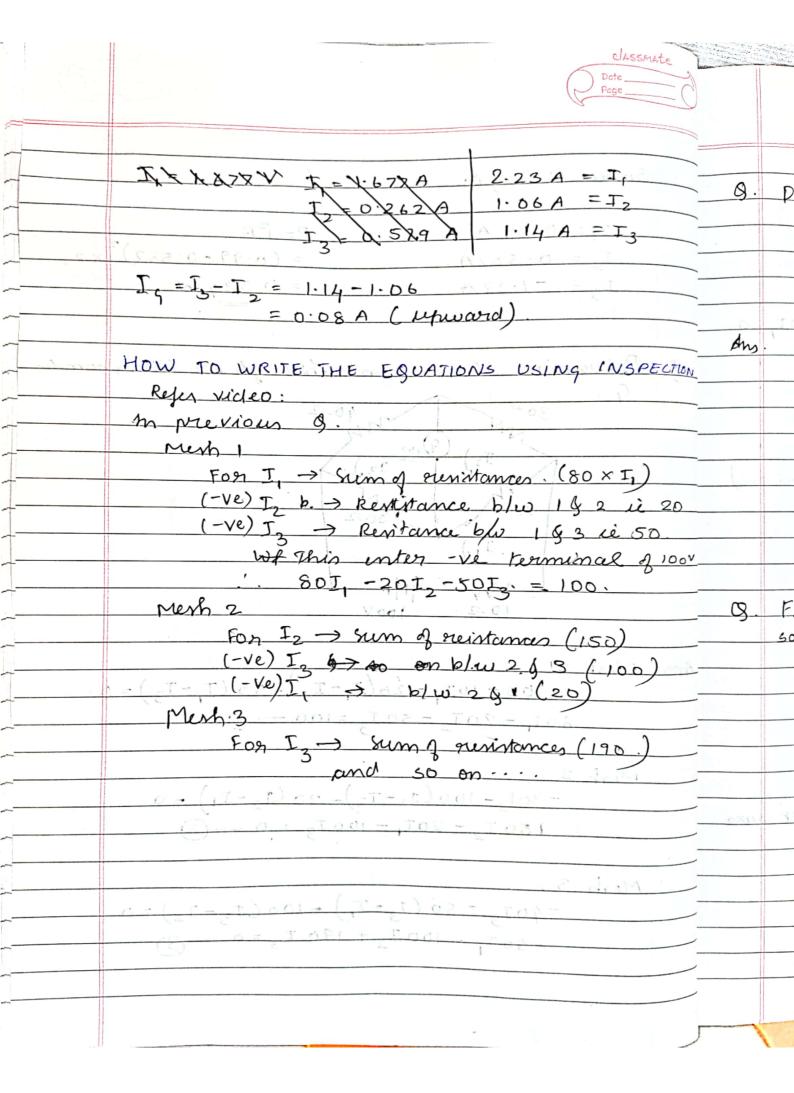


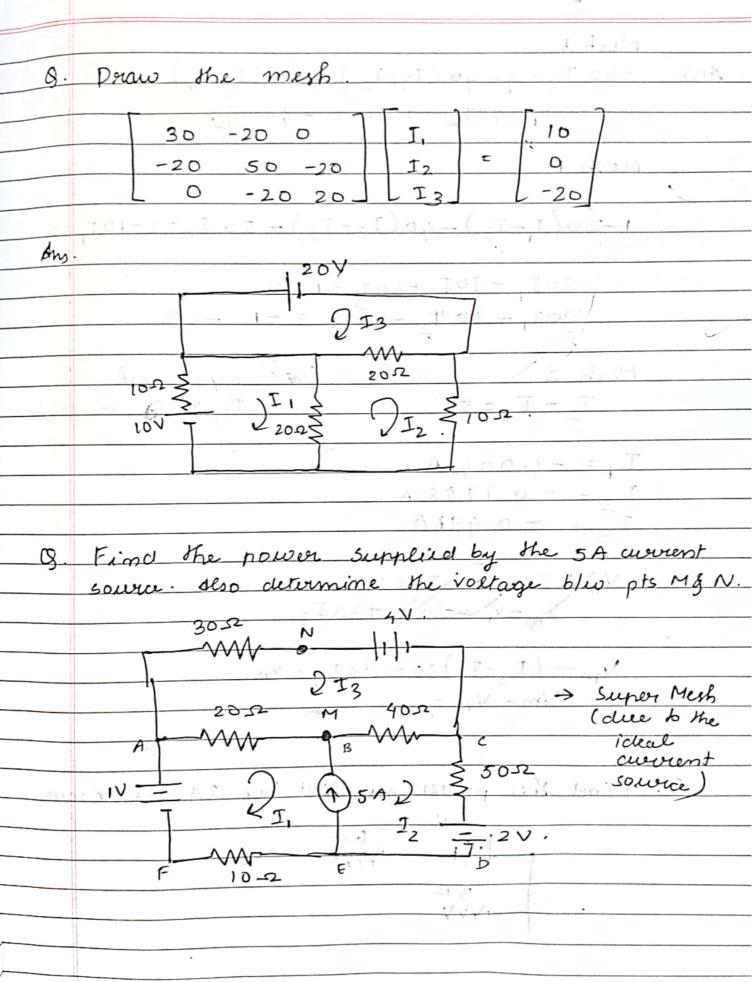
$$100 - 10I_1 - 20(I_1 - I_2) - 50(I_1 - I_3) = 0$$

$$-30I_{2}-100(I_{2}-I_{3})-20(I_{2}-I_{1})=0.$$

$$150I_{2}-20I_{1}-100I_{3}=0.$$

$$\frac{-40I_3 - 50(I_3 - I_1) - 100(I_3 - I_2) = 0}{-50I_1 - 100I_2 + 190I_3 = 0}$$





Mush 3 -30 I3 - 4 - 40 (I3-I2) -20 (I3-I,) 1-20(I-I3)-40(I2-I3)-50 I2-2-101=0 $\frac{-30I}{30J}, \frac{-90I}{2} + 60J - 1 = 0$ (70: super mesh I, I2, ane tve I, = -4.004 A. I = + 0.9958-A 3 = - 0.491A Vmt 201 +301 = Vn: Vm = (I3-1,)20- 3012= Vn