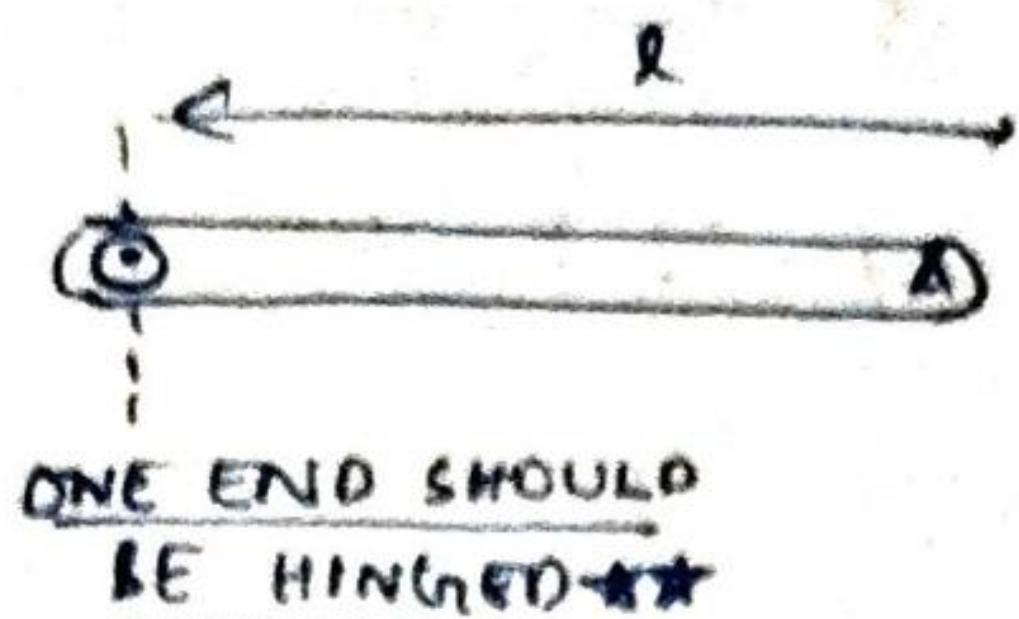
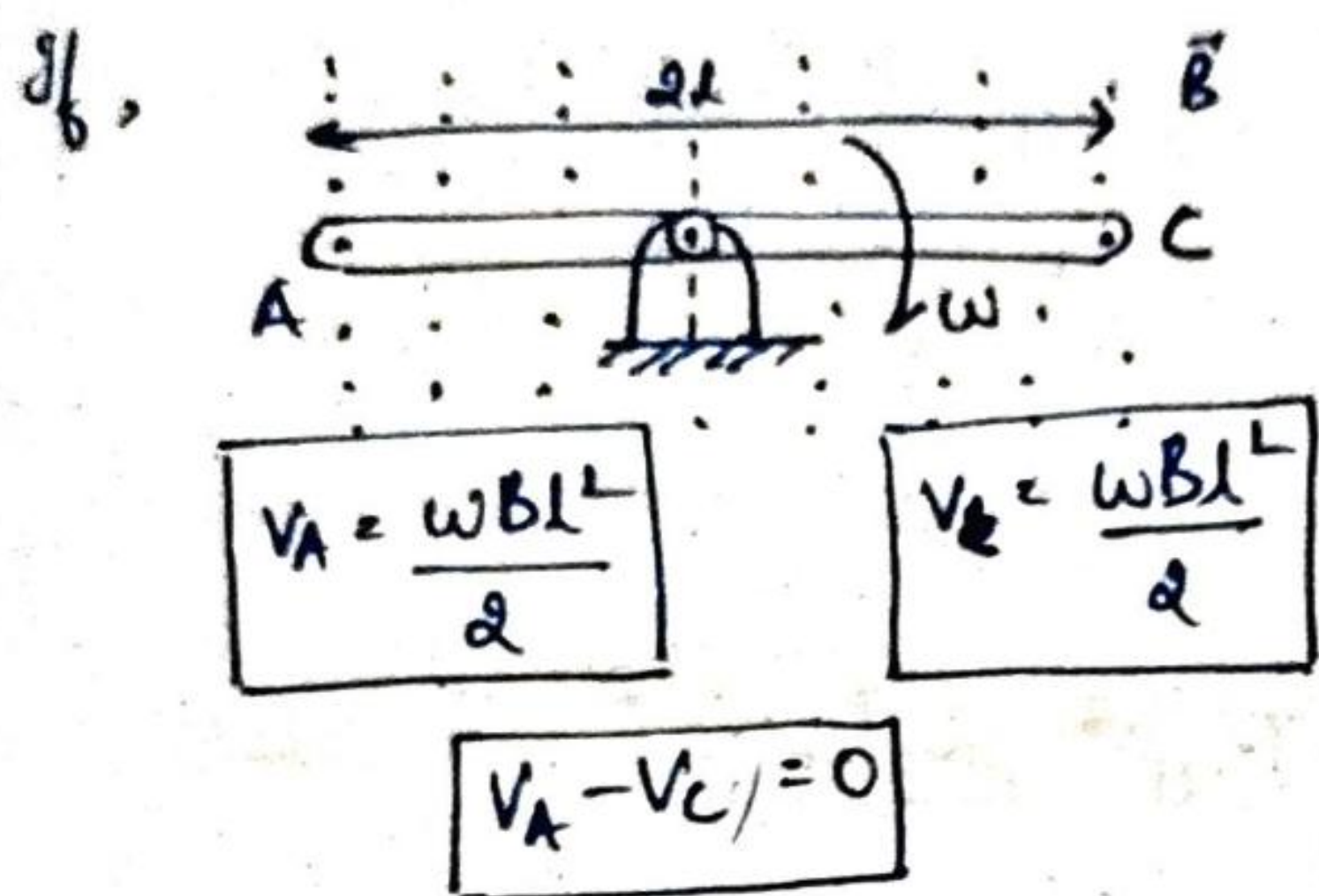


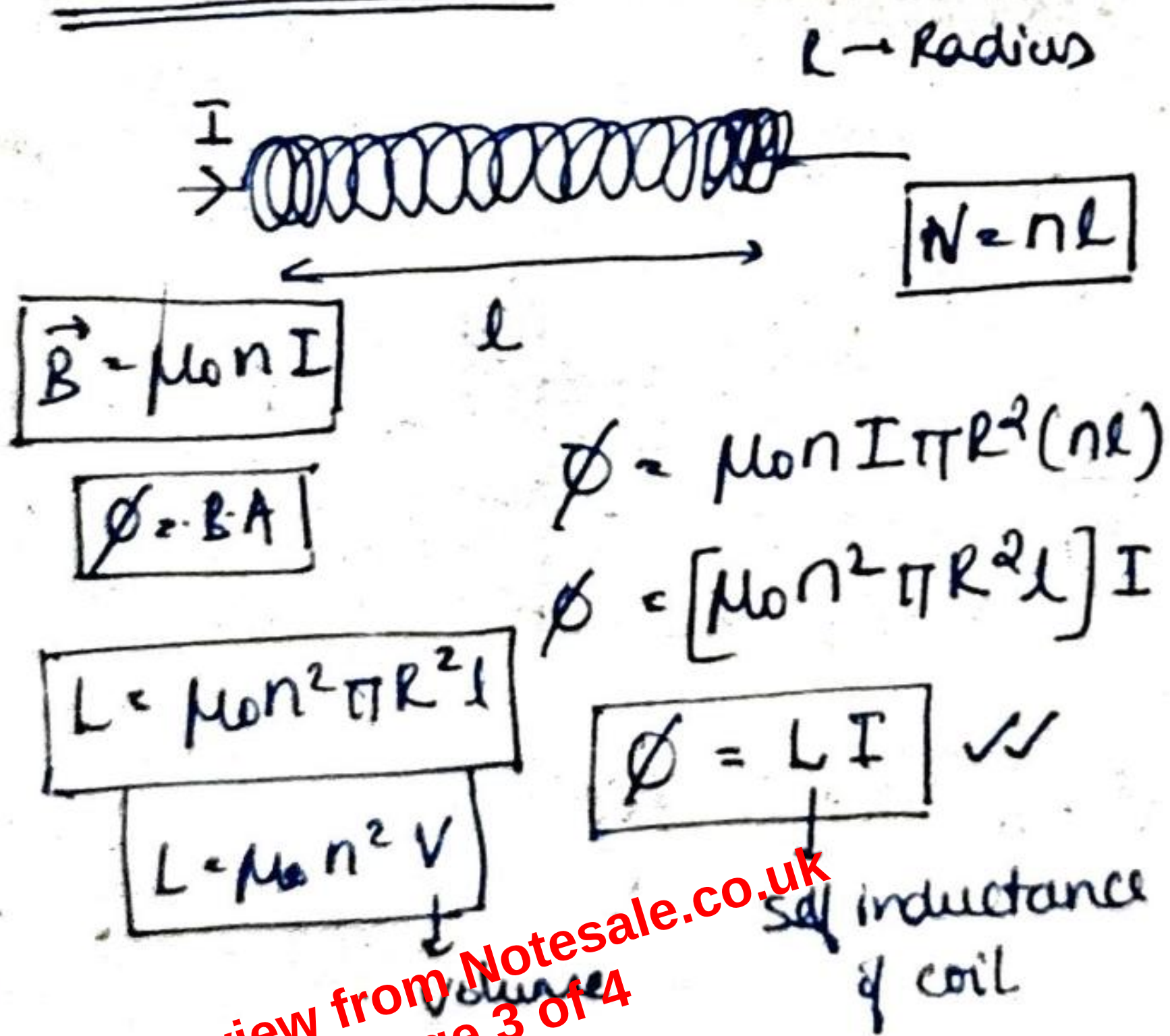
ROTATING ROD



$$V_A - V_B = \frac{\omega B l^2}{2}$$



SELF INDUCTION



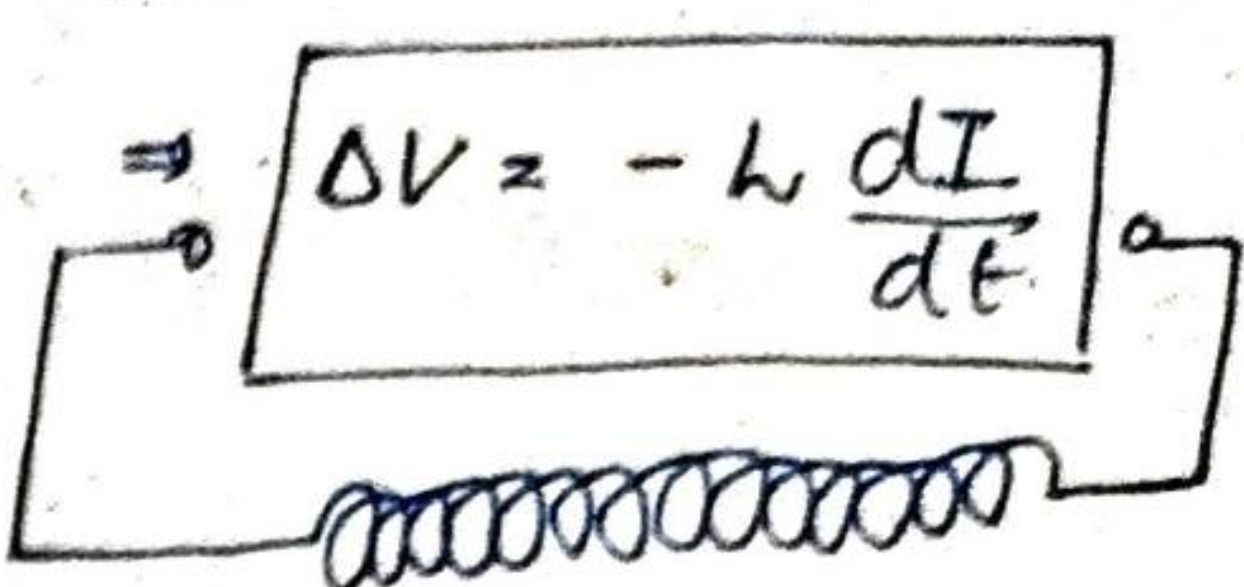
$$\phi = L I$$

S.I. → 'Henry' $\frac{\text{wb}}{\text{Amp}}$

$$\approx \mathcal{E} = \Delta V = - \frac{d\phi}{dt}$$

$$\phi = L I$$

$$\frac{d\phi}{dt} = L \frac{dI}{dt}$$



	$\frac{dI}{dt} > 0$ (ve)	I is increasing (ve)	Voltage drops (-ve)
	$\frac{dI}{dt} < 0$ (-ve)	I is decreasing (-ve)	Voltage rises (+ve)
	$\frac{dI}{dt} > 0$ (ve)	I is increasing (ve)	Voltage drop (-ve)
	$\frac{dI}{dt} < 0$ (-ve)	I is decreasing (-ve)	Voltage rise (+ve)

Increasing towards direction of current

COMBINATION OF INDUCTORS

