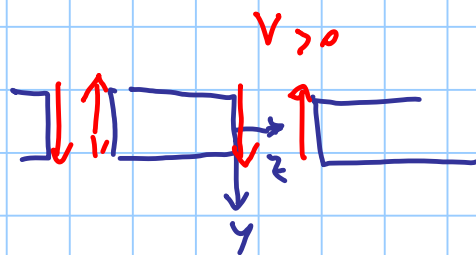
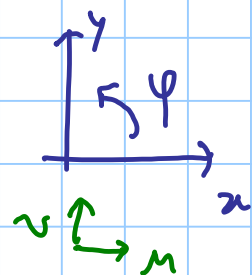
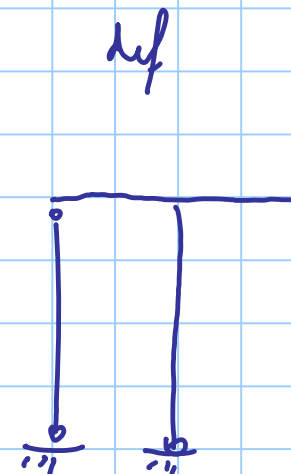
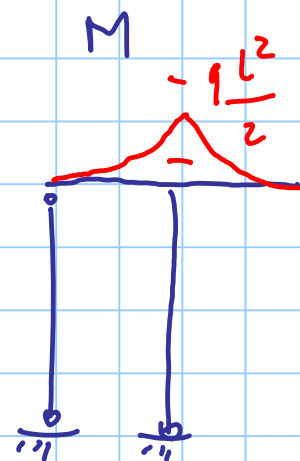
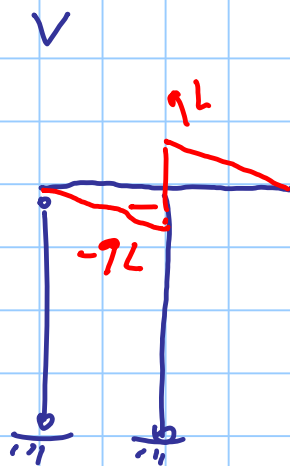
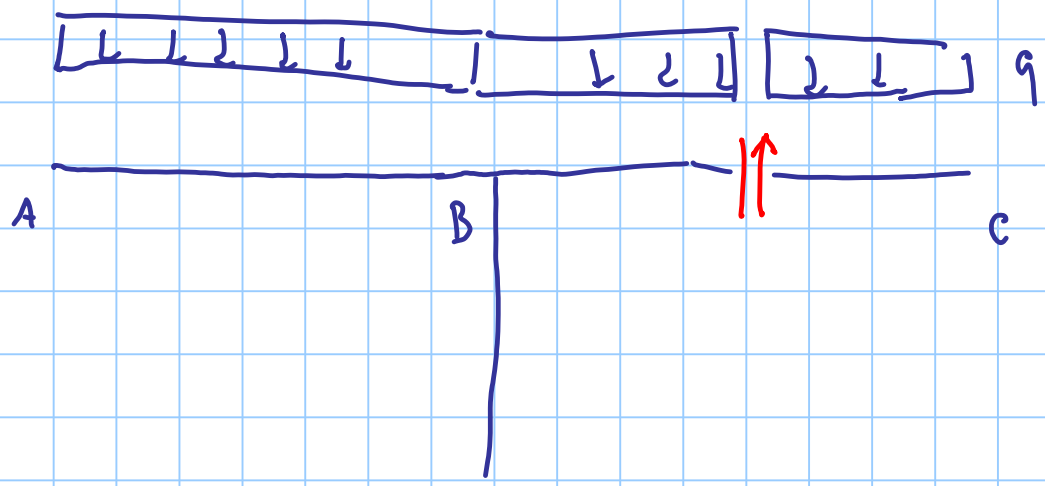
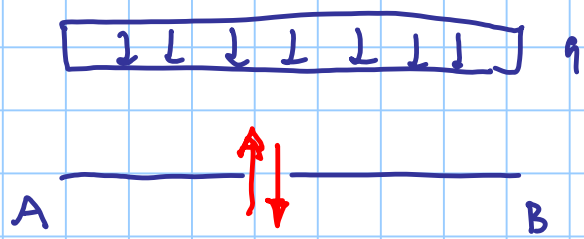
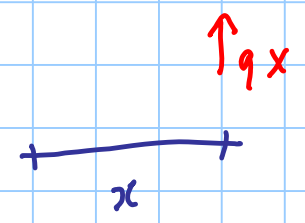
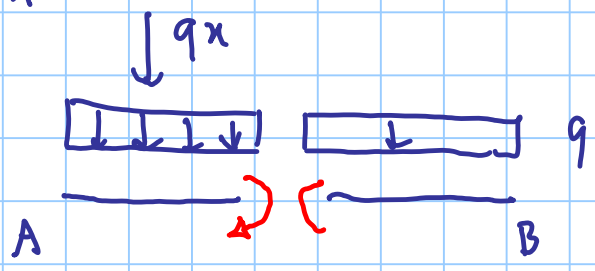


$$R_{Ey} = 2qL$$

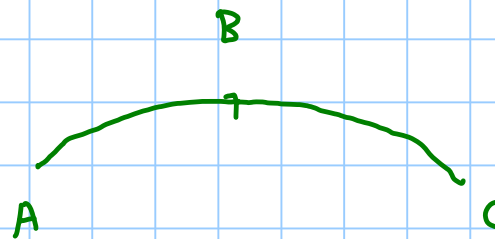
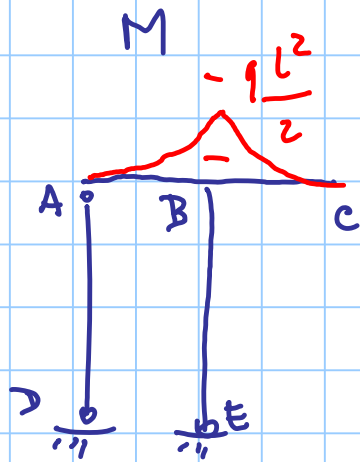




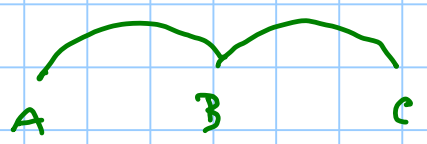
$$V_A = 0$$



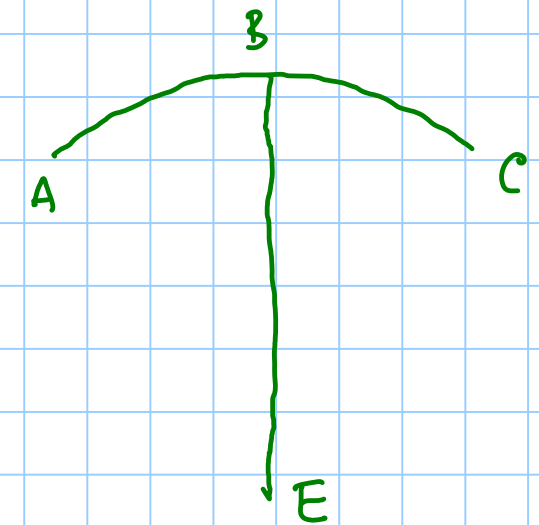
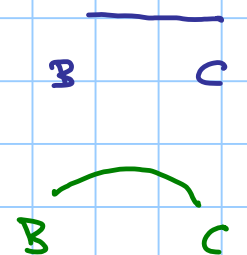
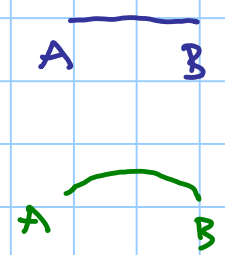
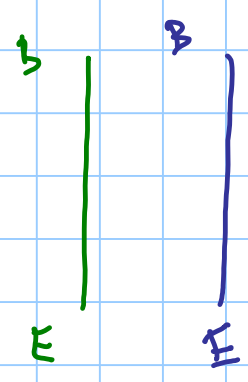
$$M = \frac{qx^2}{2}$$

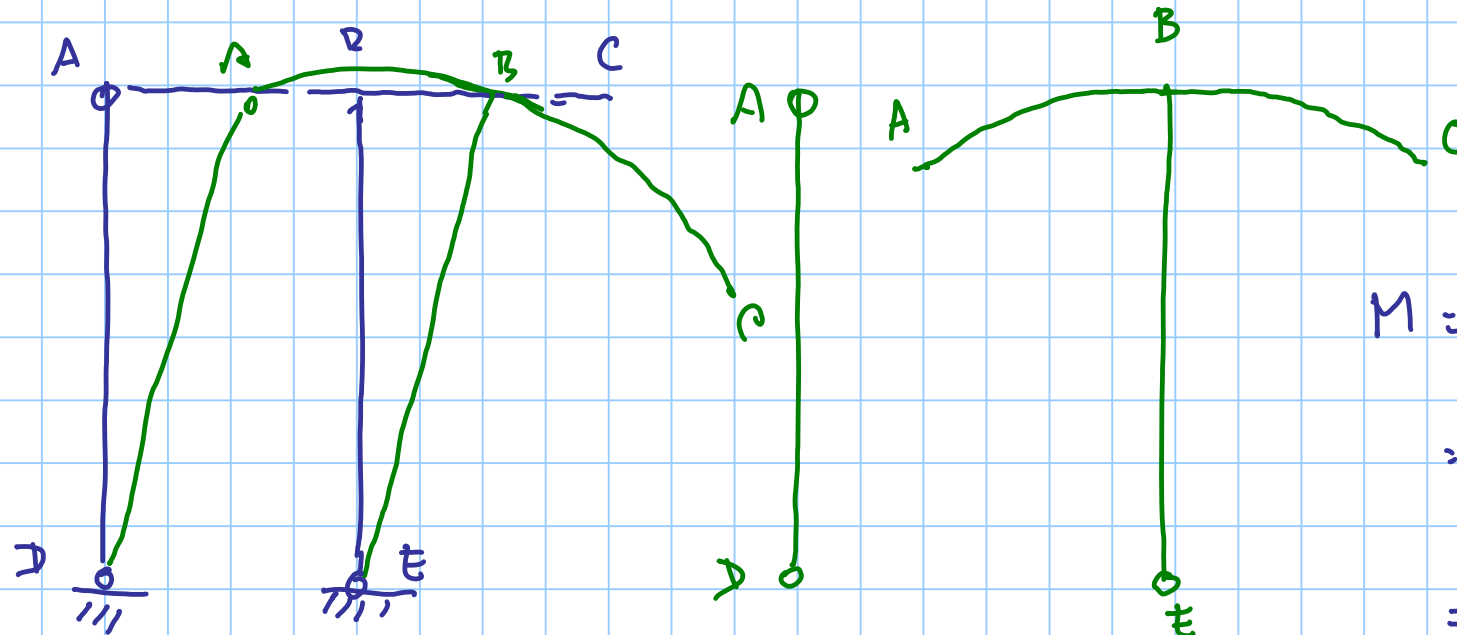


S1

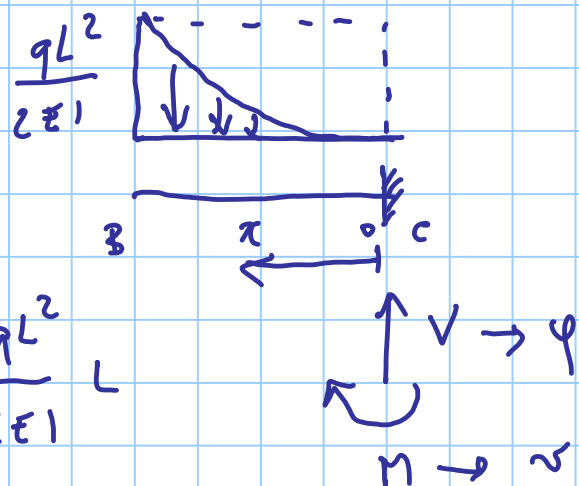


No

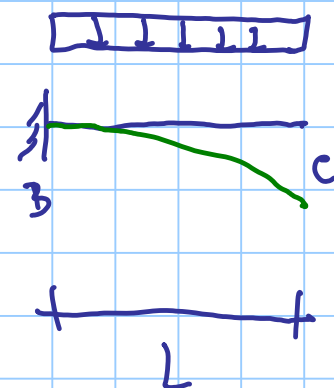




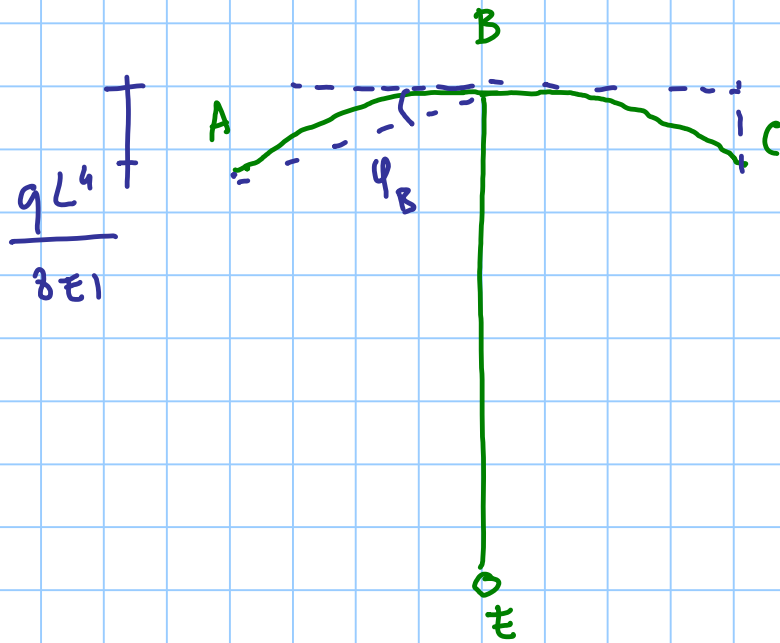
$$\begin{aligned}
 M &= \int q(x) x \, dx = \\
 &= \int \frac{qx^2}{2EI} x \, dx = \frac{q}{2EI} \int_0^L x^3 \, dx \\
 &= \frac{qL^4}{8EI}
 \end{aligned}$$



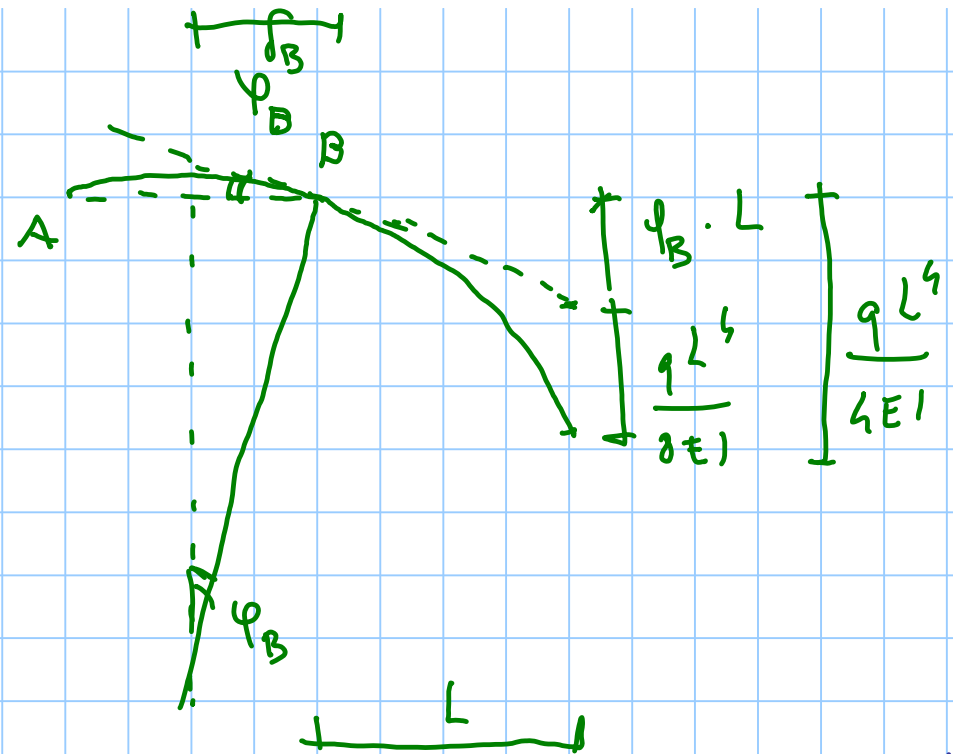
$$V = \frac{1}{3} \frac{qL^2}{2EI} L$$



$$\begin{aligned}
 v_c &= \frac{qL^4}{8EI} \\
 \varphi_c &= \frac{qL^3}{6EI}
 \end{aligned}$$

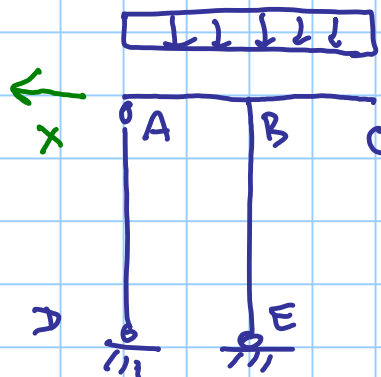
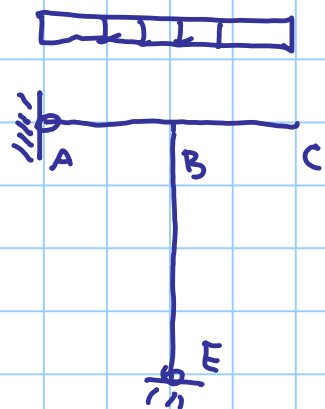


$$\phi_B = \frac{qL^4}{8EI} \cdot \frac{1}{L} = \frac{qL^3}{8EI}$$



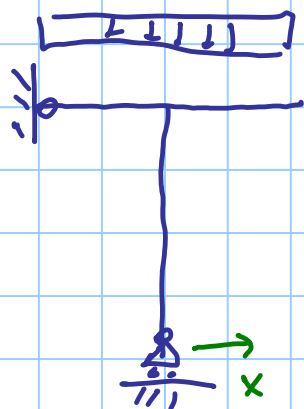
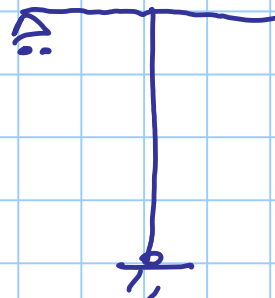
$$\delta_B = \underbrace{\phi_B \cdot 2L}_{\text{length}} = \frac{qL^4}{4EI}$$

length
Tr. of vertical

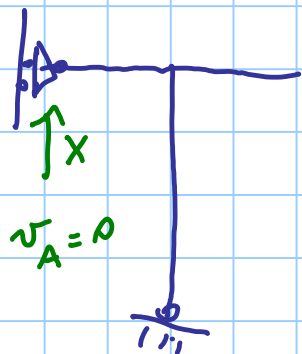


$$M_A = 0$$

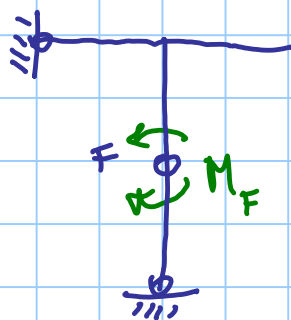
||



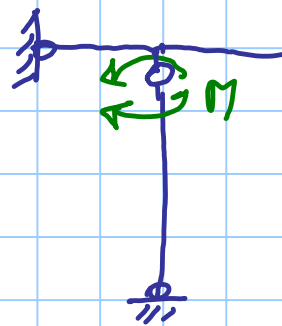
$$u_E = 0$$



$$v_A = 0$$



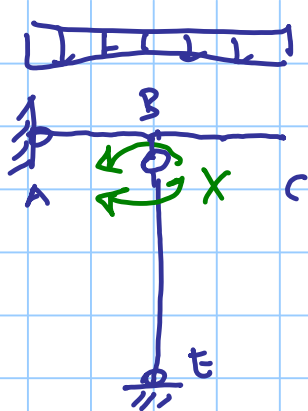
$$\Delta\psi_F = 0$$



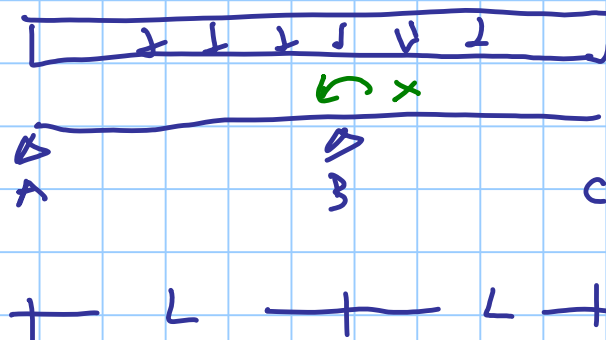
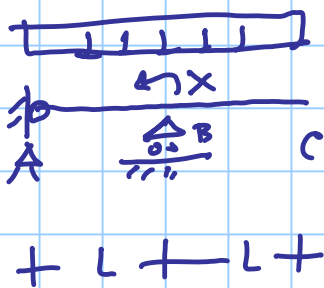
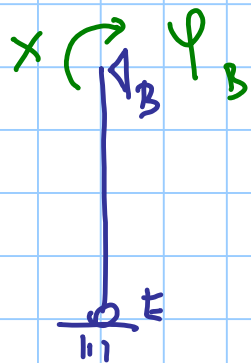
$$\Delta\psi = 0$$



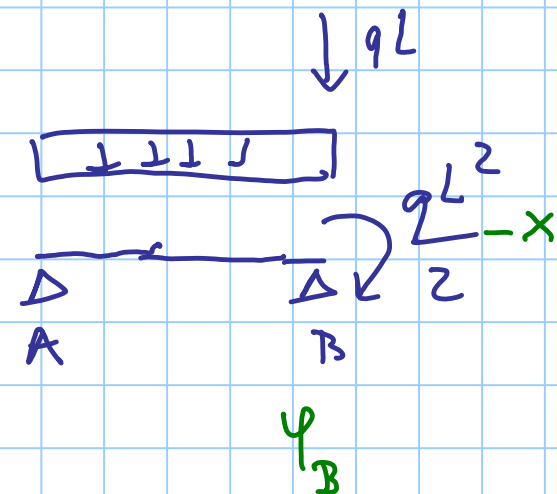
$$\Delta\psi = 0$$

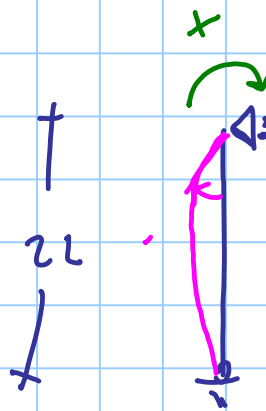


$$\Delta\varphi = 0$$

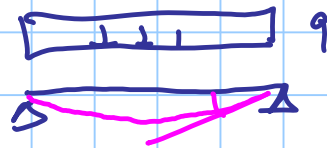
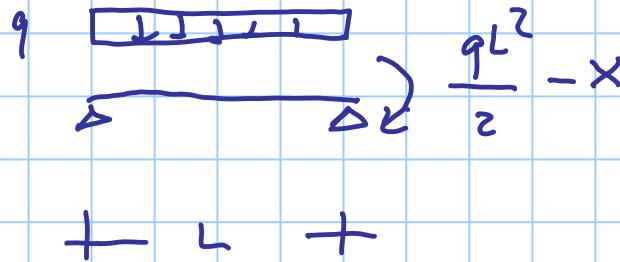


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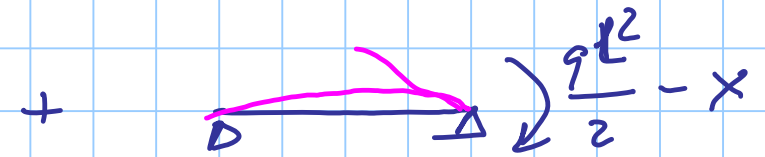




$$\varphi = \frac{X \cdot 2L}{3EI}$$



$$\varphi = \frac{qL^3}{24EI}$$



$$\varphi = \frac{\left(\frac{qL^2}{2} - x\right)L}{3EI}$$

$$-\frac{2XL}{3EI} = \frac{qL^3}{24EI} - \frac{\left(\frac{qL^2}{2} - x\right)L}{3EI}$$