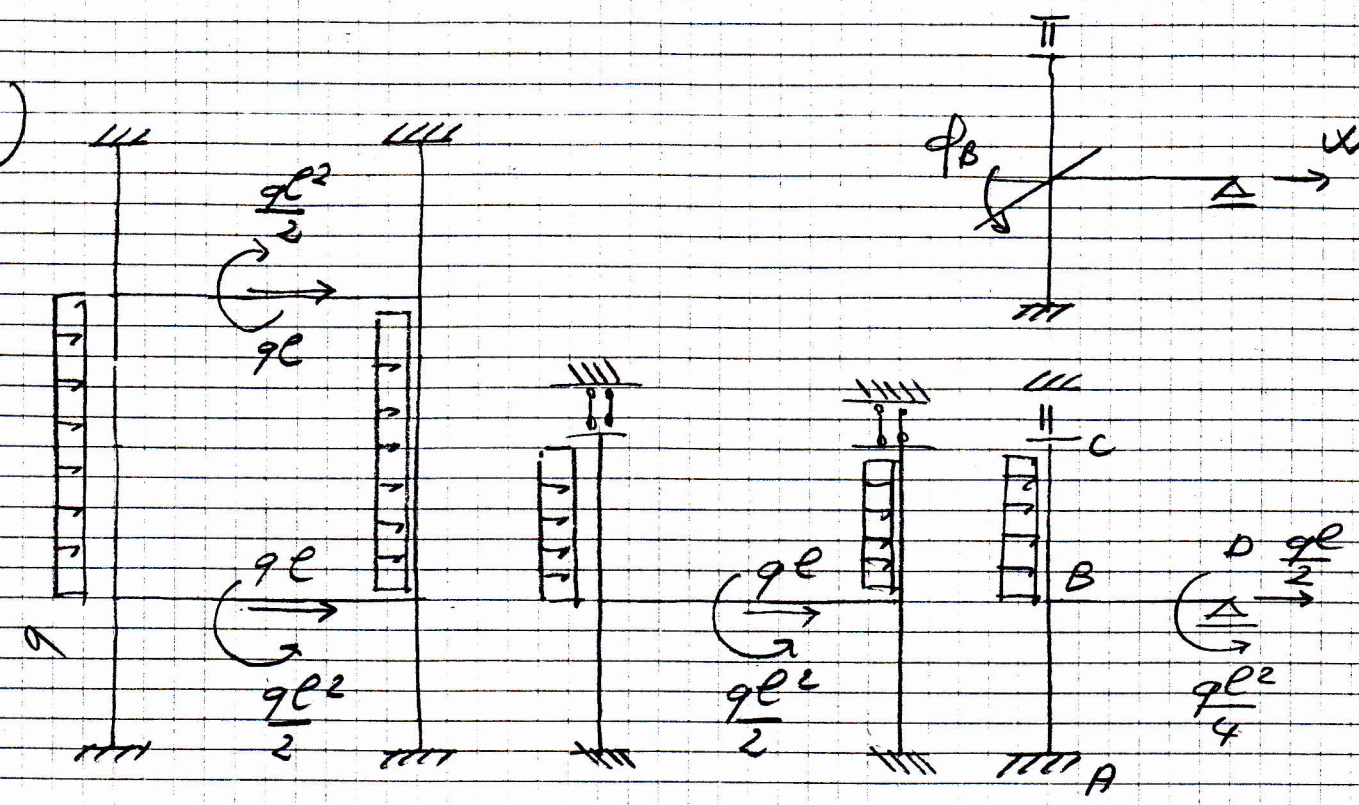


1. B)



$$M_{BC}^0 = \frac{q(2l)^2}{12}$$

$$M_{BA}^0 = 0$$

$$M_{BD}^0 = \frac{ql^2}{8}$$

$$M_{BC} = \frac{EI}{l} \phi_B + 0$$

$$M_{BA} = \frac{4EI}{l} \phi_B + \frac{6EI}{l^2} u$$

$$M_{BD} = \frac{3EI}{l} \phi_B$$

$$\begin{aligned}
 & -\frac{EI}{l} \phi_B \\
 & -\frac{ql^2}{3} \\
 & -\frac{ql^2}{8} \\
 & -\frac{3EI}{l} \phi_B \\
 & -\left(\frac{4EI}{l} \phi_B + \frac{6EI}{l^2} u \right)
 \end{aligned}$$