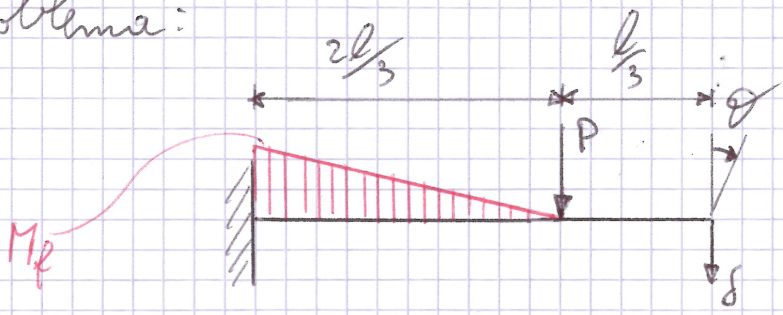
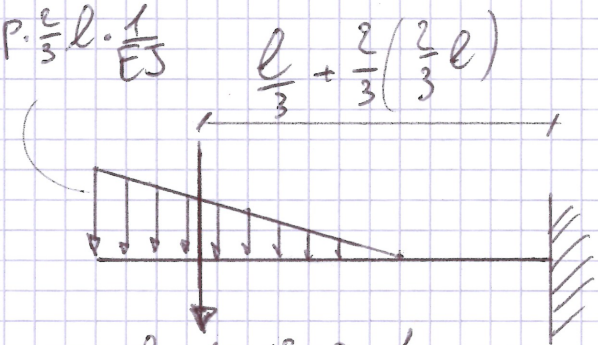
Quesito 4.84.

Problema:



Uso il teorema di Mohr.

Carico la trave ausiliaria con la curvatura della trave di partenza.



$$\frac{2}{3}P\ell\cdot\frac{1}{EJ}\cdot\frac{2}{3}\ell\cdot\frac{1}{2}=$$

$$=\frac{2}{9}\frac{P\ell^2}{EJ}$$

$$\vartheta = T = \frac{2}{9}\frac{P\ell^2}{EJ}$$

$$\delta = M = \frac{2}{9}\frac{P\ell^2}{EJ}\cdot\left(\frac{\ell}{3}+\frac{4}{9}\ell\right) = \frac{2}{9}\cdot\frac{P\ell}{EJ}\cdot\left(\frac{3+4}{9}\ell\right) = \frac{14}{81}\frac{P\ell^3}{EJ}$$