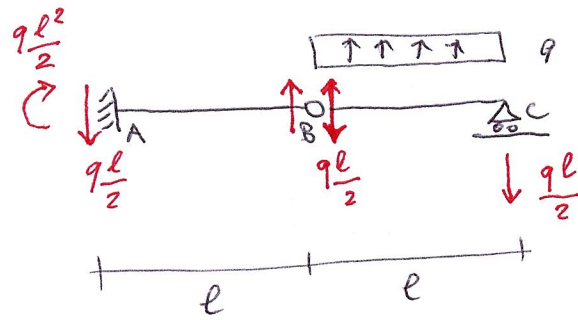


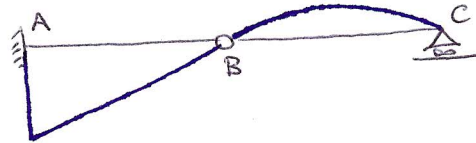
SCHEMA



REAZIONI VINCOLARI

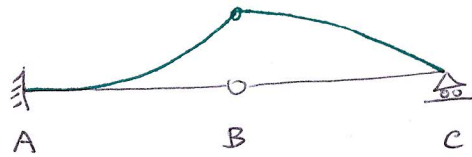
DIAGRAMMA

DI M

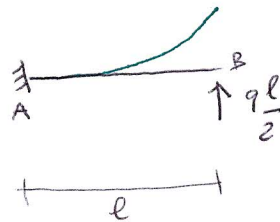


DEFORMATA

qualitative



TRATTO A-B



$$\text{quindi } \varphi_{B,s} = \frac{ql^3}{6EI}$$

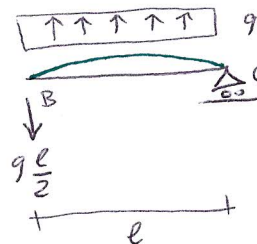
per una mensola di luce l con una forza F all'estremo ho (con i corollari di Mohr)

$$\varphi_B = \frac{Fl^2}{2EI} = \frac{ql^3}{4EI}$$

$$v_B = -\frac{Fl^3}{3EI} = -\frac{ql^4}{6EI}$$

TRATTO B-C

a meno di un moto rigido di rotazione intorno a C



per Trave appoggiata con carico q

$$\varphi_B = \frac{ql^3}{24EI}$$

moto rigido, per la congruenza con lo spostamento di B



$$\varphi_B = \frac{v_B}{l} = -\frac{ql^3}{6EI}$$

$$\text{TOTALE } \varphi_B = \frac{ql^3}{24EI} - \frac{ql^3}{6EI} = -\frac{ql^3}{8EI}$$

$$\text{quindi } \varphi_{B,d} = -\frac{ql^3}{8EI}$$