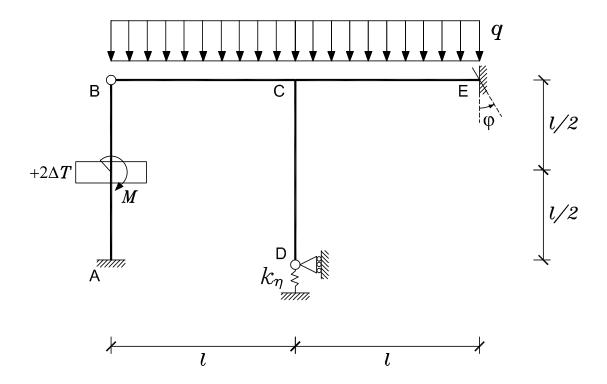
## TECNICA DELLE COSTRUZIONI

## TEMA ESAME DEL 8 GIUGNO 2015

DOCENTE: ING. FAUSTO MINELLI

ESERCITATORE: ING. ANTONIO CONFORTI

## Esercizio



$$M = 2ql^{2}$$

$$\varphi = \frac{5}{6} \frac{ql^{3}}{EJ}$$

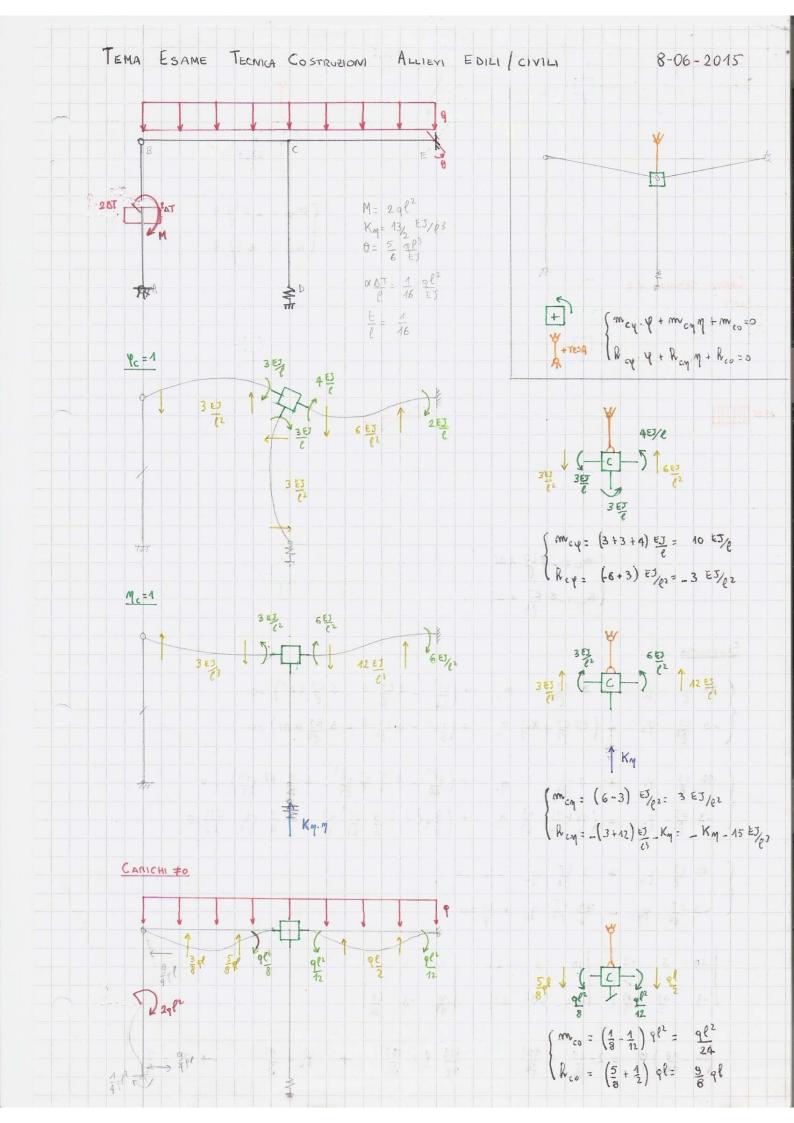
$$\frac{\alpha \Delta T}{l} = \frac{1}{16} \frac{ql^{2}}{EJ}$$

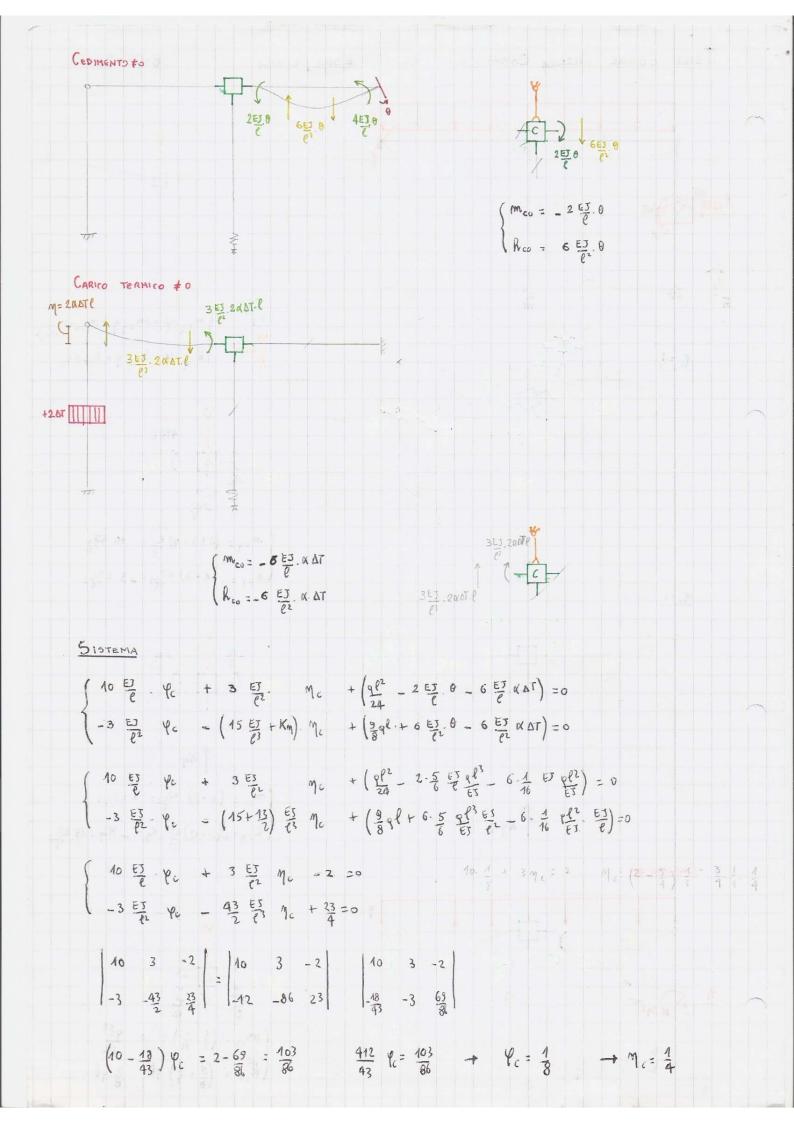
$$k_{\eta} = \frac{13}{2} \frac{EJ}{l^{3}}$$

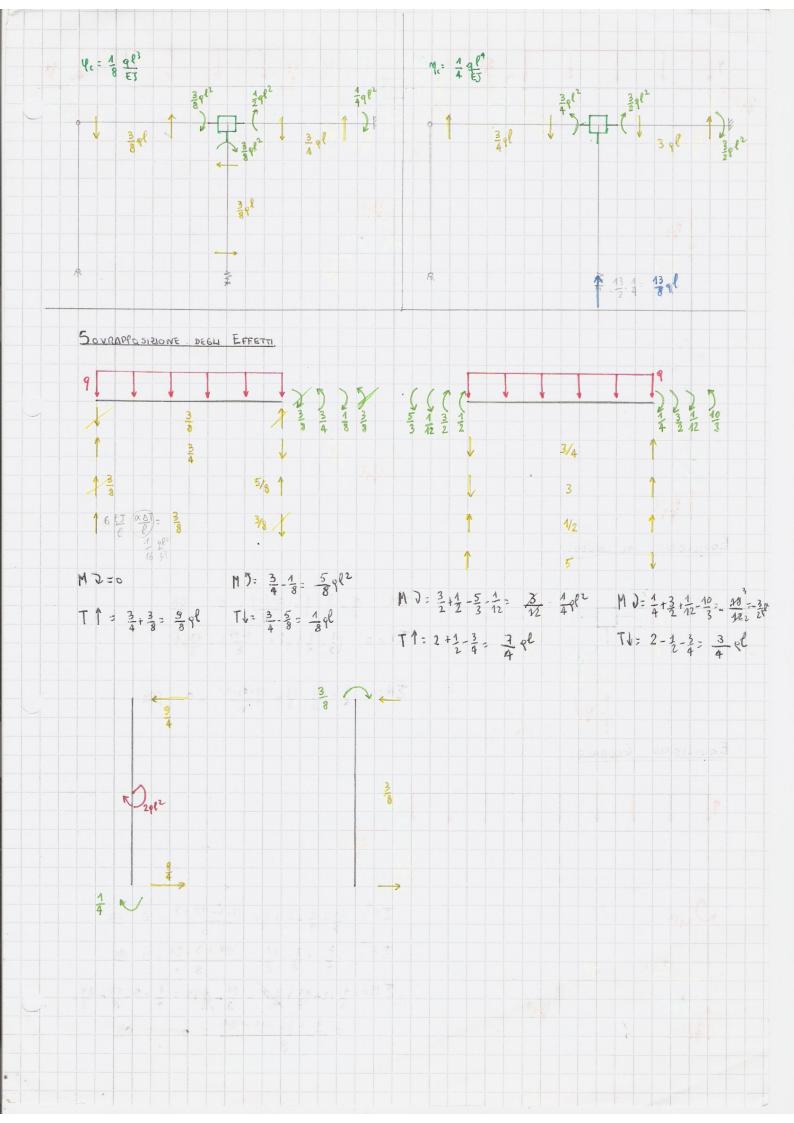
Dato il telaio in figura

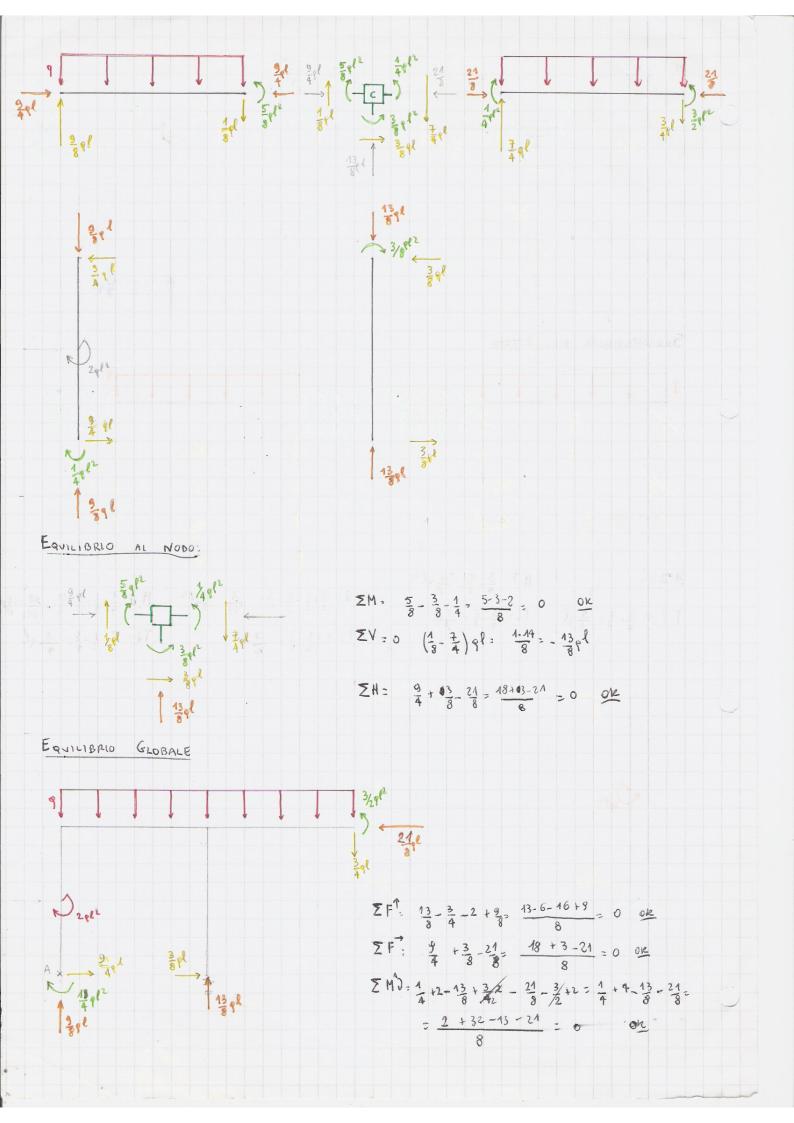
## Si richiedono i grafici di:

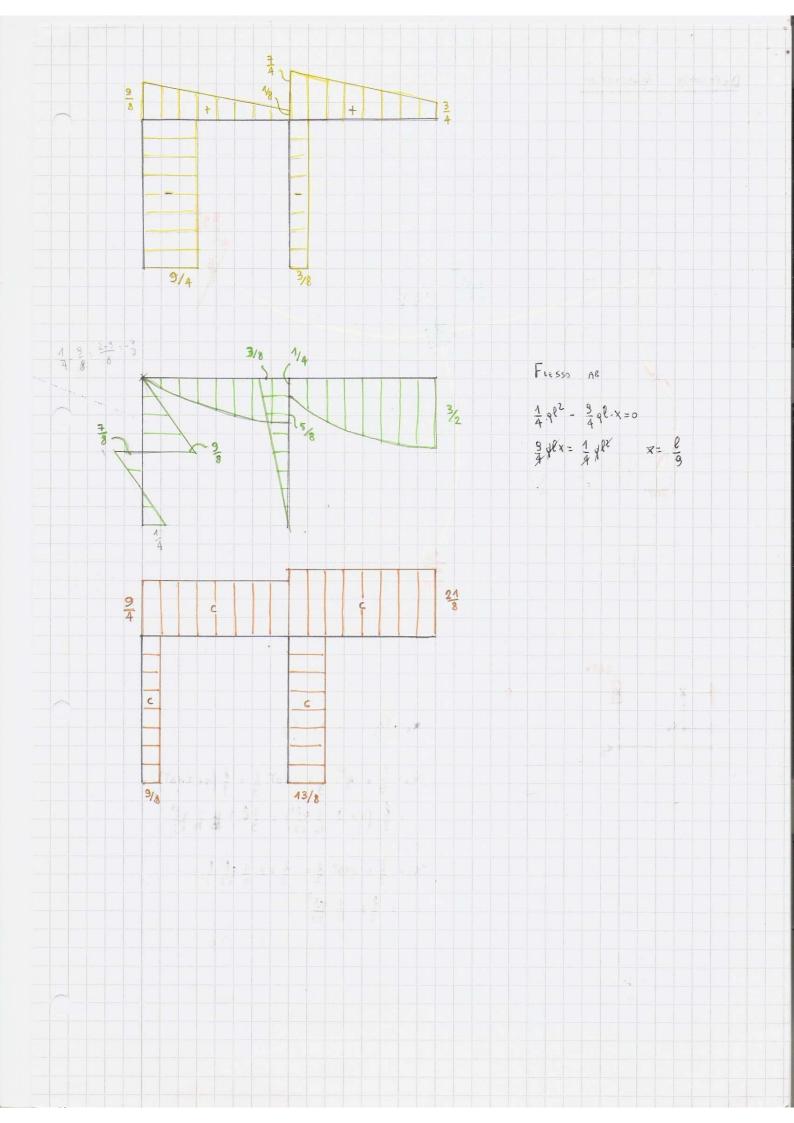
- 1. Momento flettente (con il valore e la posizione dei massimi);
- 2. Taglio;
- 3. Azione assiale;
- 4. Deformata qualitativa con posizione dei flessi.

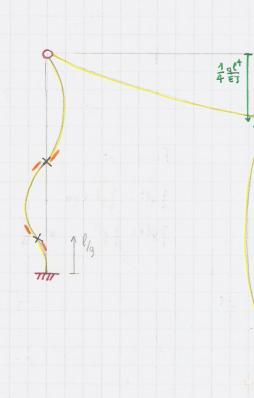


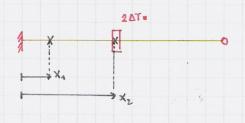












$$x_2 = \frac{\ell}{2} + 2\alpha \delta t$$
.  $\frac{\ell}{2} = \frac{\ell}{2} + 2 \cdot \frac{1}{16} \frac{9\ell^3}{67} \cdot \frac{\ell}{2} = \frac{\ell}{2} + \frac{1}{16} \frac{9\ell^4}{67}$