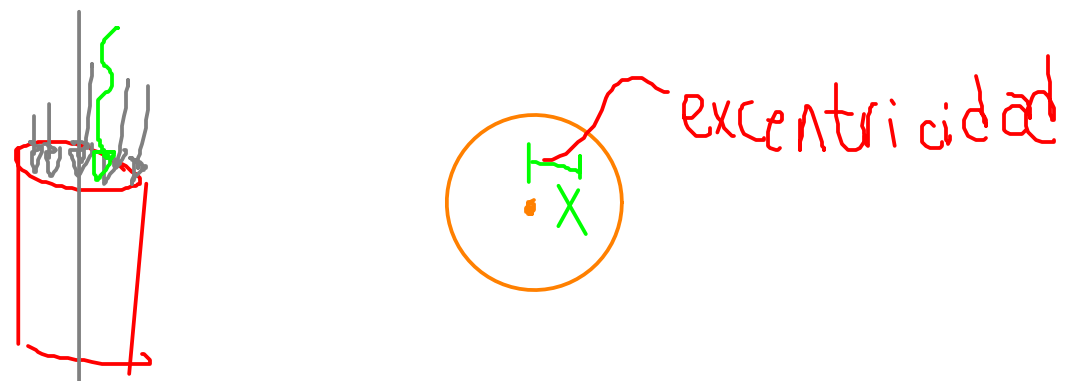


Esf. Normal. o Axial

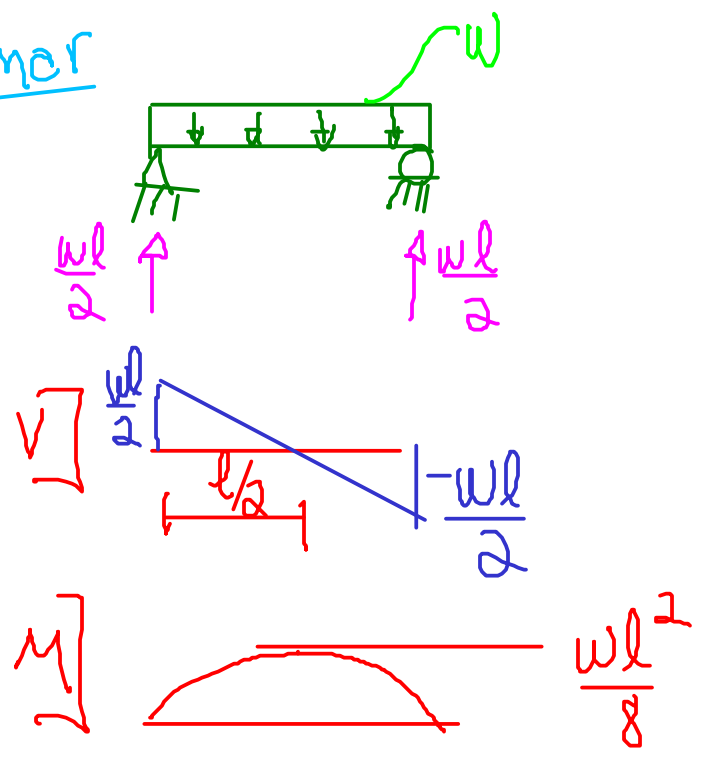
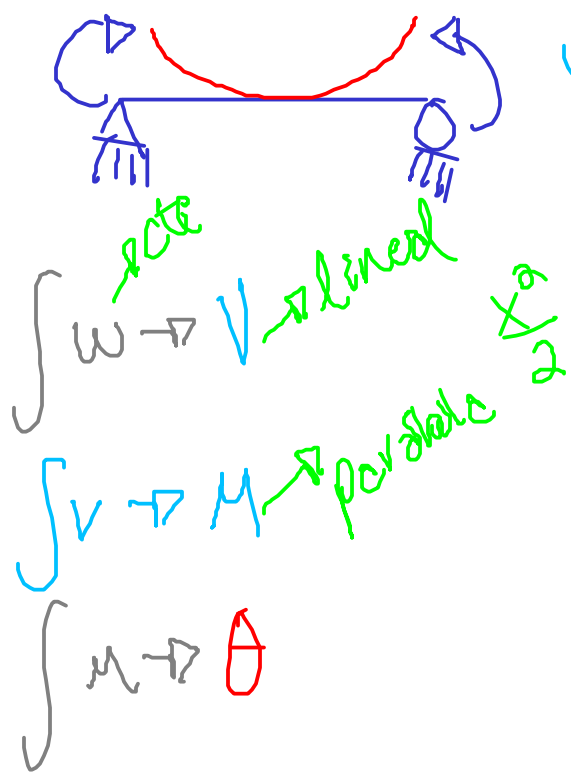


Esf. flexionante



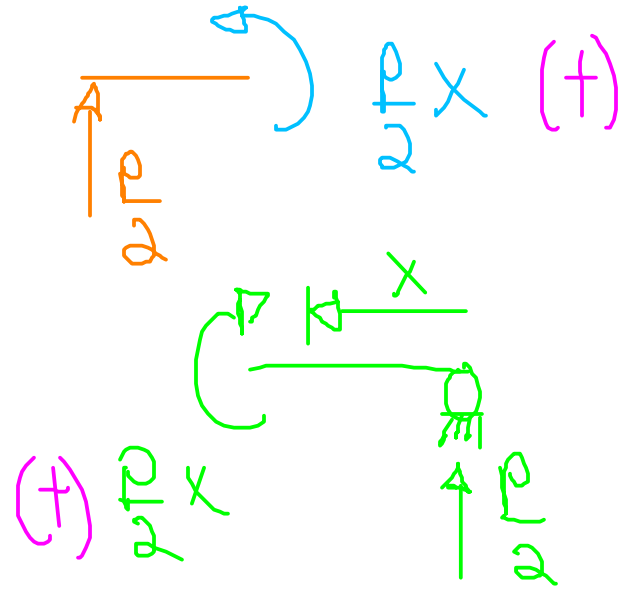
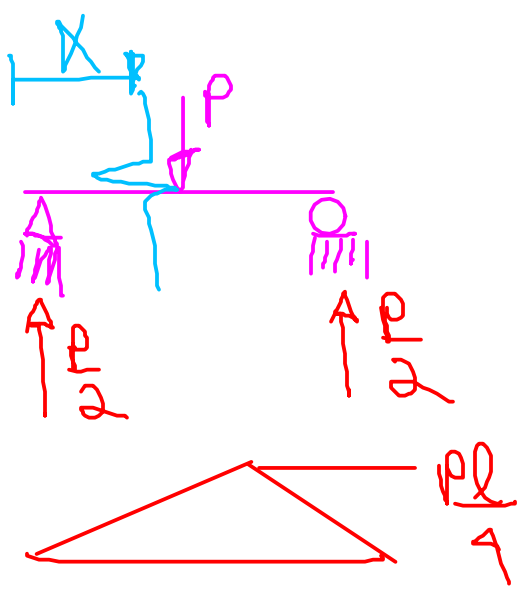
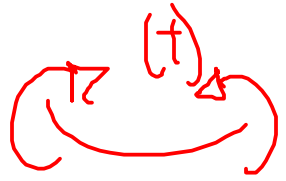
flexocompresion  $\sigma = \frac{P}{A} + \frac{Mc}{I}$

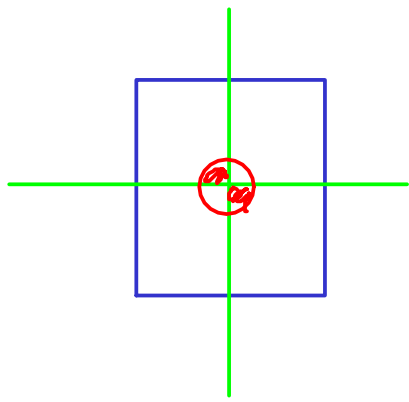
# Sumar



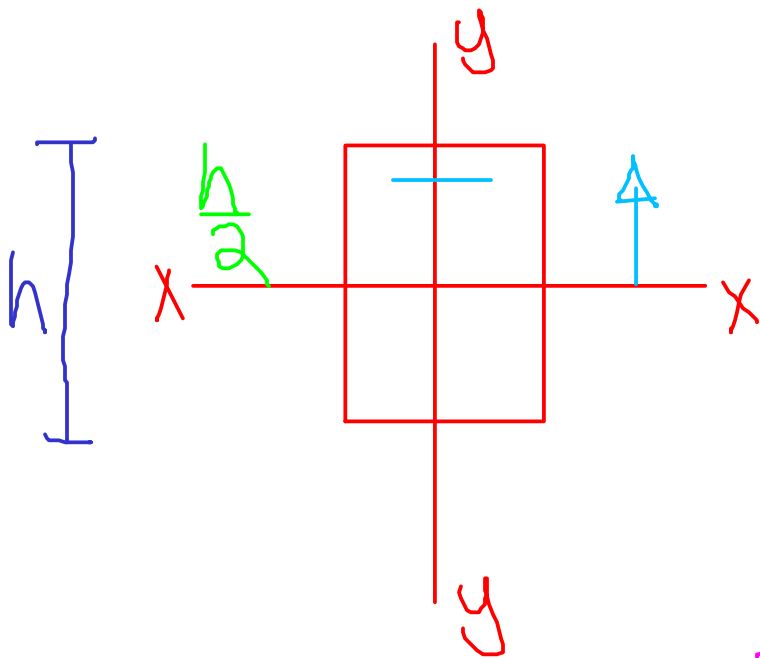
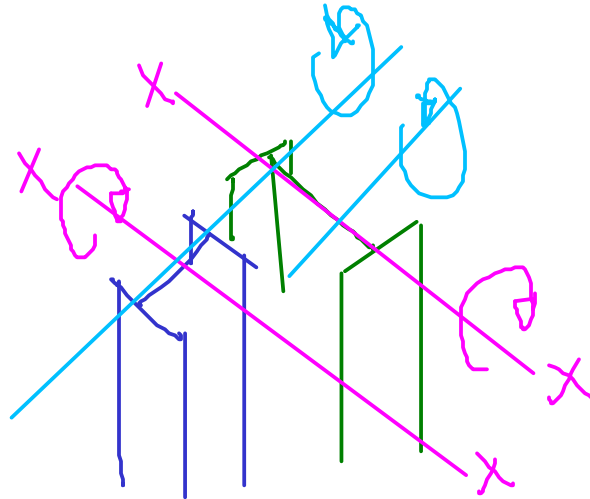
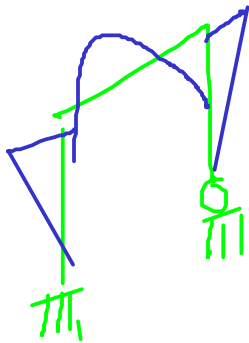
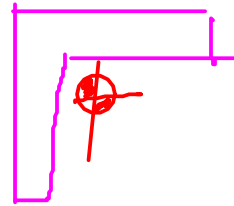
$$\frac{1}{2} \left( \frac{l}{2} \right) \left( \frac{wl}{2} \right) = \frac{wl^2}{8}$$

$$\int \theta \rightarrow \delta$$





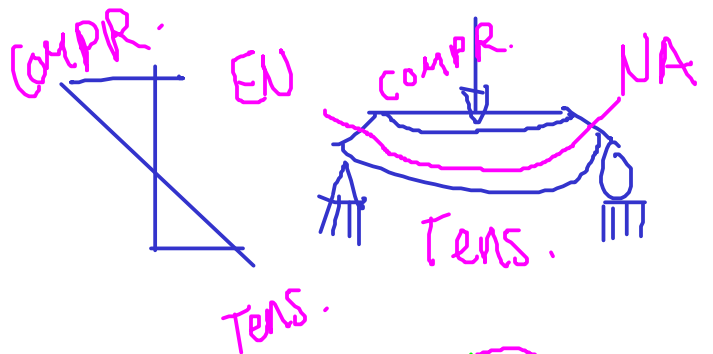
Centroide



$$I_{xx} = \frac{1}{12} b h^3$$

$$I_{yy} = \frac{1}{12} b^3 h$$

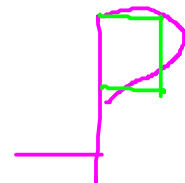
$$\sigma_{flex} = \frac{M c}{I}$$



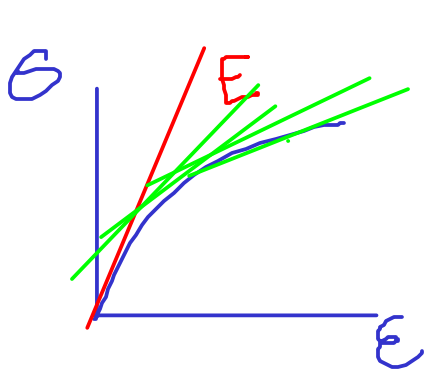
Hooke

$$\sigma = E \epsilon$$

def. unitaria



# E = Módulo elástico



$$E_c = 15100 \sqrt{f'_c} \quad \text{kgf/cm}^2$$

$f'_c = \text{resist. compr.}$

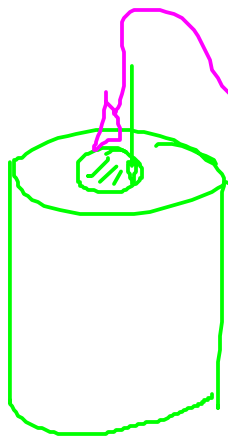
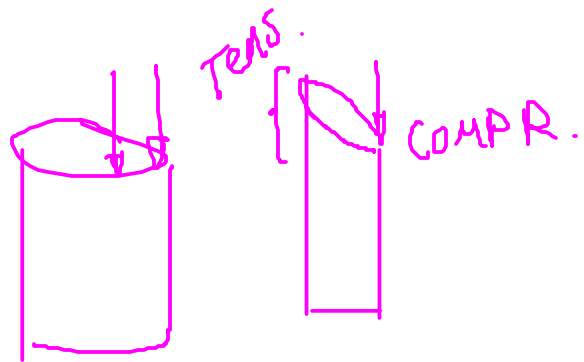
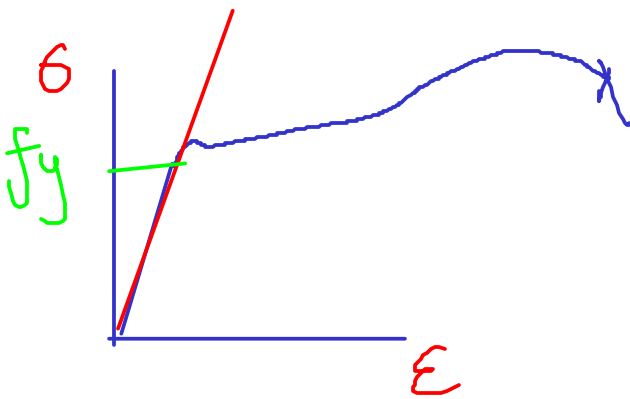
250

250

300

$$\text{Tens}_c = \frac{1}{10} f'_c = 1720$$

$$E_a = 2.04 \times 10^6 \text{ kgf/cm}^2 = 29,000 \text{ Ksi}$$



Núcleo Central