- Indian income tax

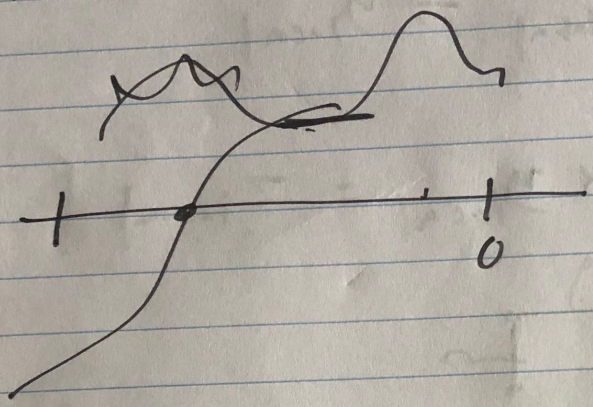
N 5296605

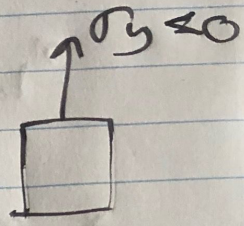
0.001

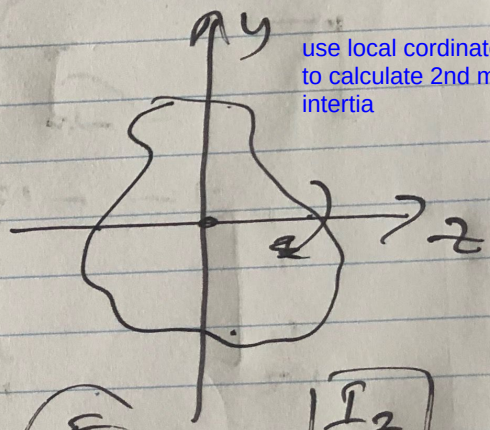
0.01

0.0001 kPa

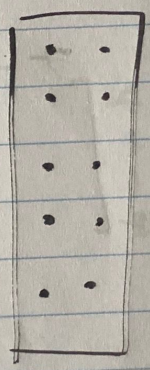
- Travel medical insurance
- bank statements.

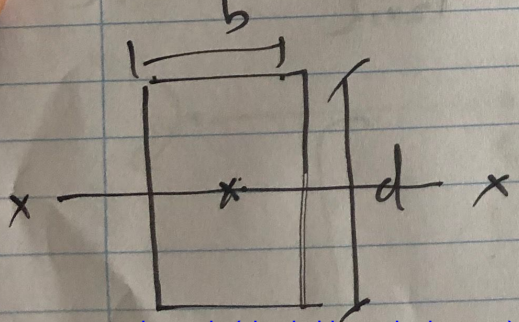






use local cordinate system to calculate 2nd moment of intertia





E
G
material property

I_z
I_y
J
Section property

eg-: around xx axis (check this on the internet)

$$I_{xx} = \frac{bd^3}{12}$$

$$J = \frac{bh}{12}(h^2+b^2)$$

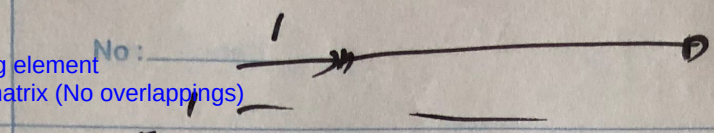
J is like Ix

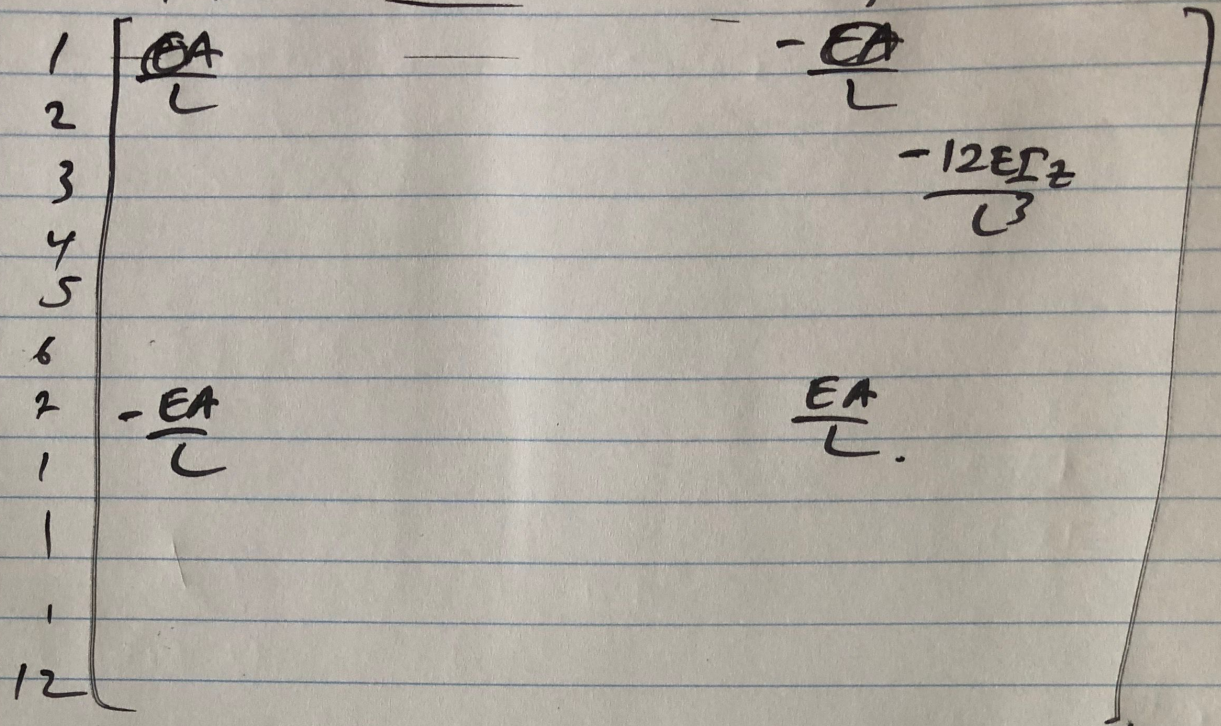
for steel

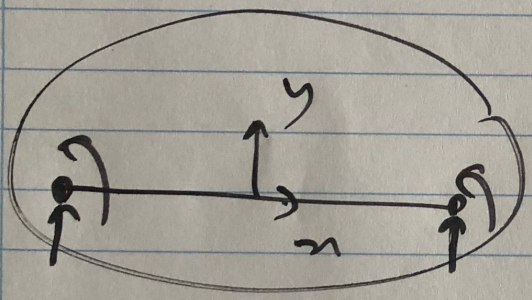
$E = 200\,000\,000$ kPa.

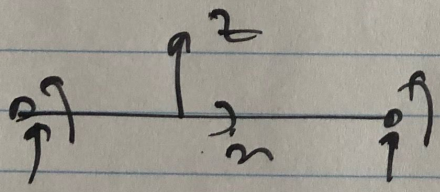
$$G = \frac{E}{2(1+\nu)} \quad \nu = 0.3$$

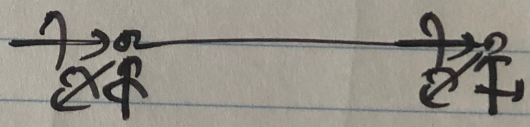
Generating element
stiffness matrix (No overlappings)

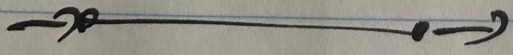


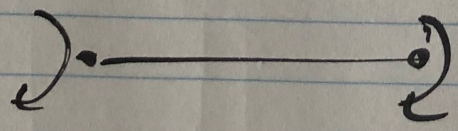






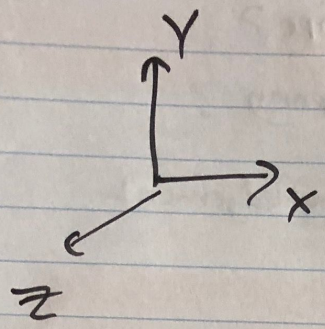


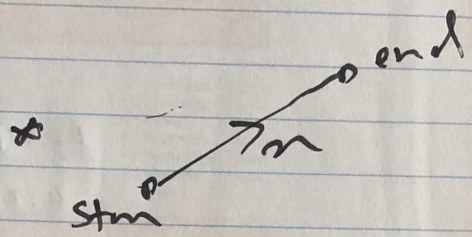


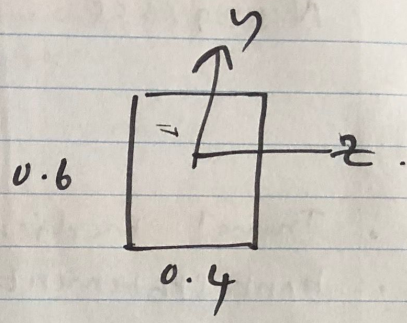


No :

Date: __/__/____

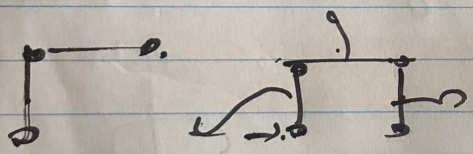


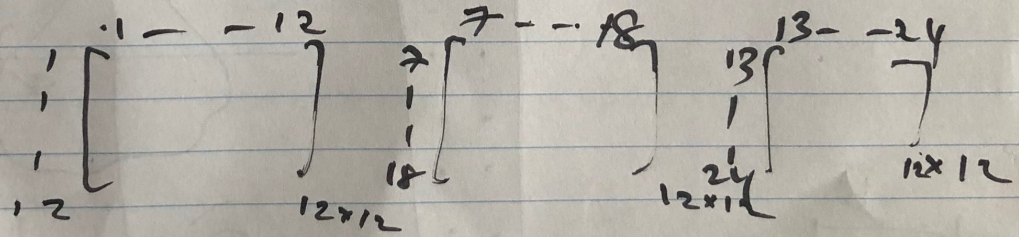




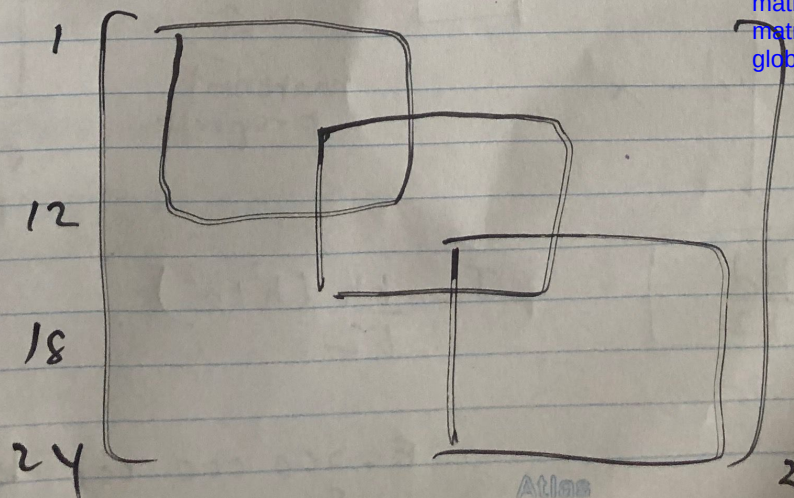
$x_{local} \times z_{global} \rightarrow y_{local}$

$x_{local} \times y_{local} = z_{local}$.





assembling for structure stiffness matrix (Element stiffness matrices should refer global coordinate system)



24×12.