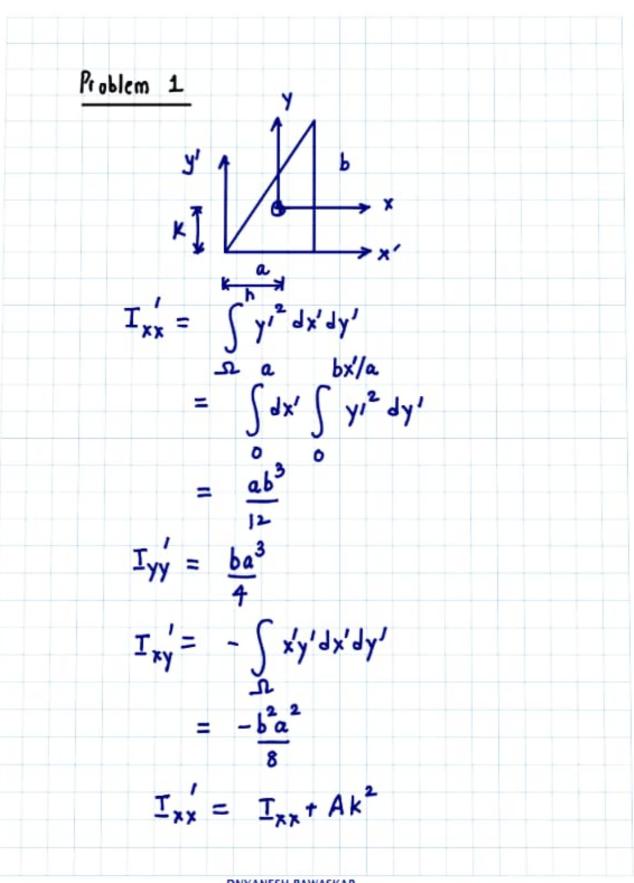


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$$I_{yy}' = I_{yy} + Ah^{2}$$

$$I_{xy}' = I_{xy} - Ahk$$

$$\frac{ab^{3}}{12} = I_{xx} + \frac{ab}{2} \left(\frac{b}{3}\right)^{2} \Rightarrow I_{xx} = \frac{ab^{3}}{36}$$

$$I_{yy} = \frac{ba^{3}}{36}, \quad I_{xy} = -\frac{a^{2}b^{2}}{72}$$

$$A = -\frac{My}{I_{xx}} + \frac{Mx}{I_{yy}} = -\frac{E}{d^{2}u}$$

$$B = \frac{Mx}{I_{yy}} - \frac{My}{I_{xx}} = -\frac{E}{d^{2}u}$$

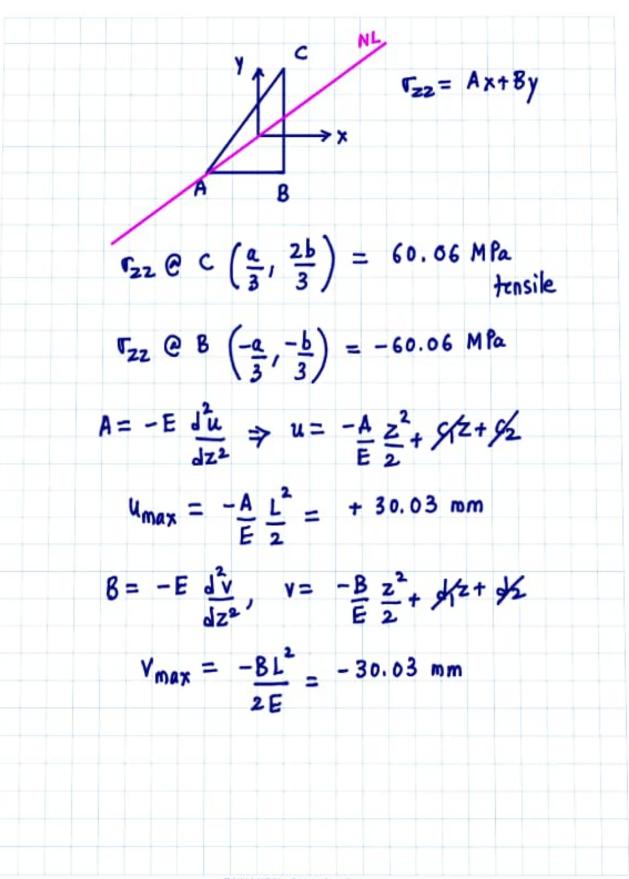
$$I_{xx}I_{yy} - \frac{I_{xy}}{I_{xx}} = -\frac{E}{d^{2}u}$$

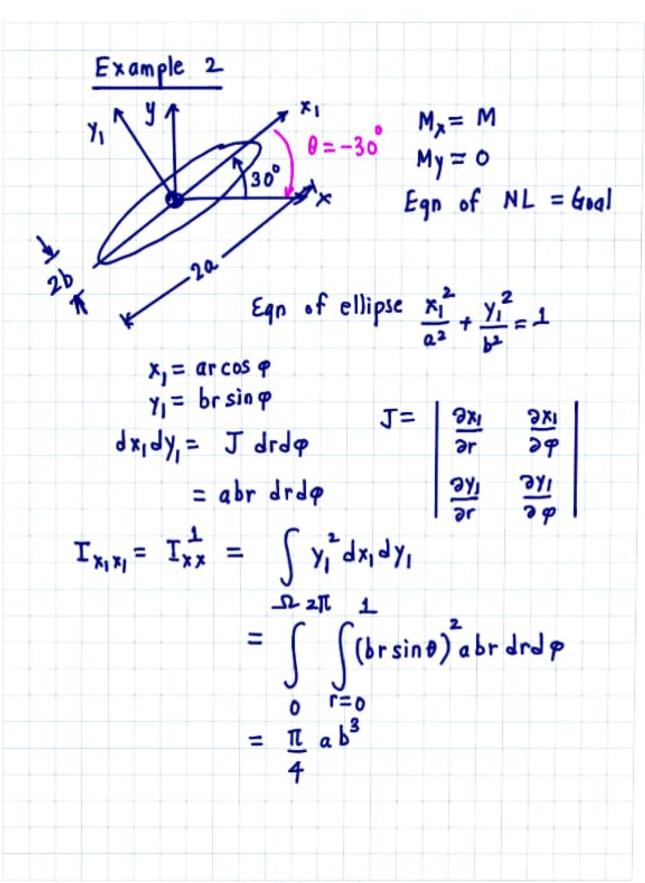
$$A = -6.006 \times 10^{9} \frac{Nm}{m^{4}}$$

$$B = +6.006 \times 10^{9} \frac{Nm}{m^{4}}$$

$$Eq_{n} \text{ of neulral line } A_{x} + B_{y} = 0$$

$$y = x$$





$$T_{yy}^{1} = \frac{\pi}{4} a^{3}b$$

$$T_{xy}^{1} = 0$$
Use transf. rates $\theta = -30^{\circ}$, $c = \cos\theta$

$$S = \sin\theta$$

$$T_{xx} = T_{xx}^{1} c^{2} + T_{yy}^{1} s^{2} + 2T_{xy}^{1} sc$$

$$= \frac{\pi}{16} (3ab^{3} + ba^{3})$$

$$T_{yy} = T_{xx}^{1} s^{2} + T_{yy}^{1} c^{2} - 2T_{xy}^{1} sc$$

$$= \frac{\pi}{16} (3a^{3}b + ab^{3})$$

$$T_{xy} = \left(T_{yy}^{1} - T_{xx}^{1}\right) sc + T_{xy}^{1} \left(c^{2} - s^{2}\right)$$

$$= \sqrt{3} \frac{\pi}{16} \left(ab^{3} - ba^{3}\right)$$

$$\Delta = \det(T_{x}) = T_{xx}^{1} T_{yy} - (T_{xy}^{1})^{2}$$

$$= T_{xx} T_{yy} - T_{xy}^{2}$$

$$= \frac{\pi^{2}}{16} a^{4} b^{4}$$

$$= \frac{\pi^{2}}{16} a^{4} b^{4}$$

$$A = \frac{M\sqrt{3}}{\pi} \left(\frac{1}{a^3b} - \frac{1}{ab^3} \right)$$

$$B = \frac{M}{\pi} \left(\frac{3}{ab^3} + \frac{1}{a^3b} \right)$$

$$\nabla_{zz} = Ax + By$$

$$NL \quad Ax + By = 0$$

$$y = \sqrt{3} \left(\frac{a^3b - ab^3}{3a^3b + ab^3} \right) x$$

$$DNYANESH PAWASKAR$$

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