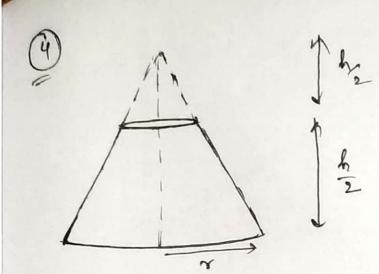
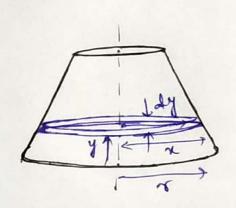


$$= \frac{1}{3} = \frac{129 - 27 - 29}{3(4 - \pi)}$$

$$\frac{1}{3} = \frac{10a - 3\pi a}{3(4-\pi)}$$

$$So: \bar{\chi} = \frac{29}{3(4-\pi)}; \bar{\gamma} = \frac{(10-2\pi)}{3(4-\pi)}$$





$$dA = \pi x^{2}.$$

$$\Rightarrow dV = \pi x^{2} dy$$
from Garity:
$$\tau = h - y$$

$$\Rightarrow x = (h - y) \frac{x}{h}$$

Now; 
$$du = \frac{\pi r^2}{h^2} (h^2 + y^2 - 2hy) dy$$

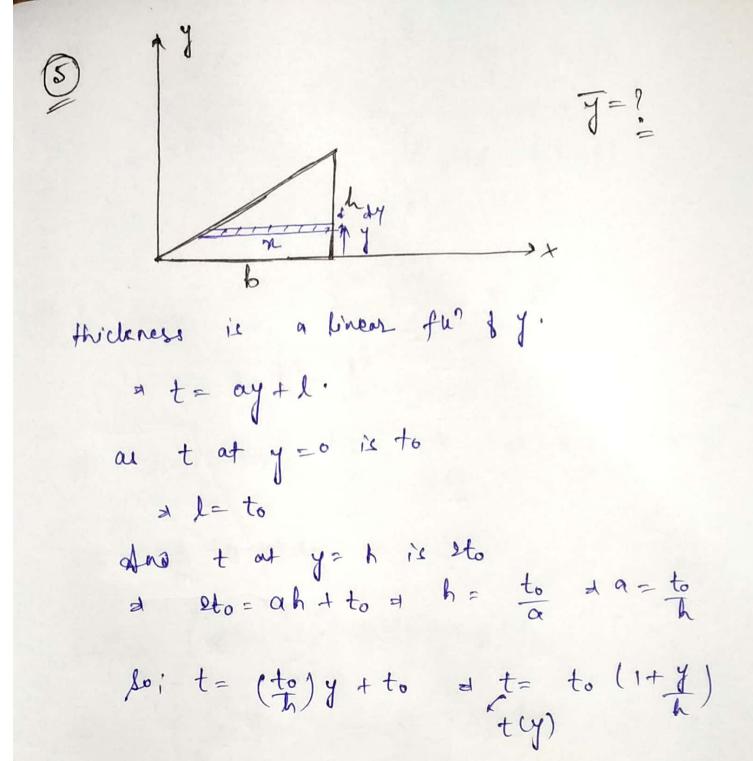
$$\overline{y} = \int y du = \frac{\pi r^2}{h^2} \int (h^2 y + y^2) dy$$

$$\overline{y} = \int du = \frac{\pi r^2}{h^2} \int (h^2 y + y^2) dy$$

$$\int \frac{y}{h^2} \int \frac{h^2}{h^2} \int \frac{h^2y}{h^2} + y^2 - 2hy^2 dy$$

$$\int \frac{du}{h^2} \int \frac{h^2}{h^2} \int \frac{h^2}{h^2} + y^2 - 2hy dy$$

$$\frac{1}{\sqrt{3}} = \frac{h^{2} \times \frac{h^{2}}{8} + \frac{1}{4} \times \frac{h^{4}}{16} - \frac{2h}{3} \times \frac{h^{3}}{8}}{\frac{h^{2}}{2} + \frac{1}{3} \cdot \frac{h^{2}}{8} - \frac{2h}{2} \cdot \frac{h^{2}}{4}} = \sqrt{y^{2} - \frac{11}{56}h}.$$



from limiterity: 
$$\frac{b}{a} = \frac{h}{h-y} \Rightarrow x = \frac{b}{h}(h-y)$$

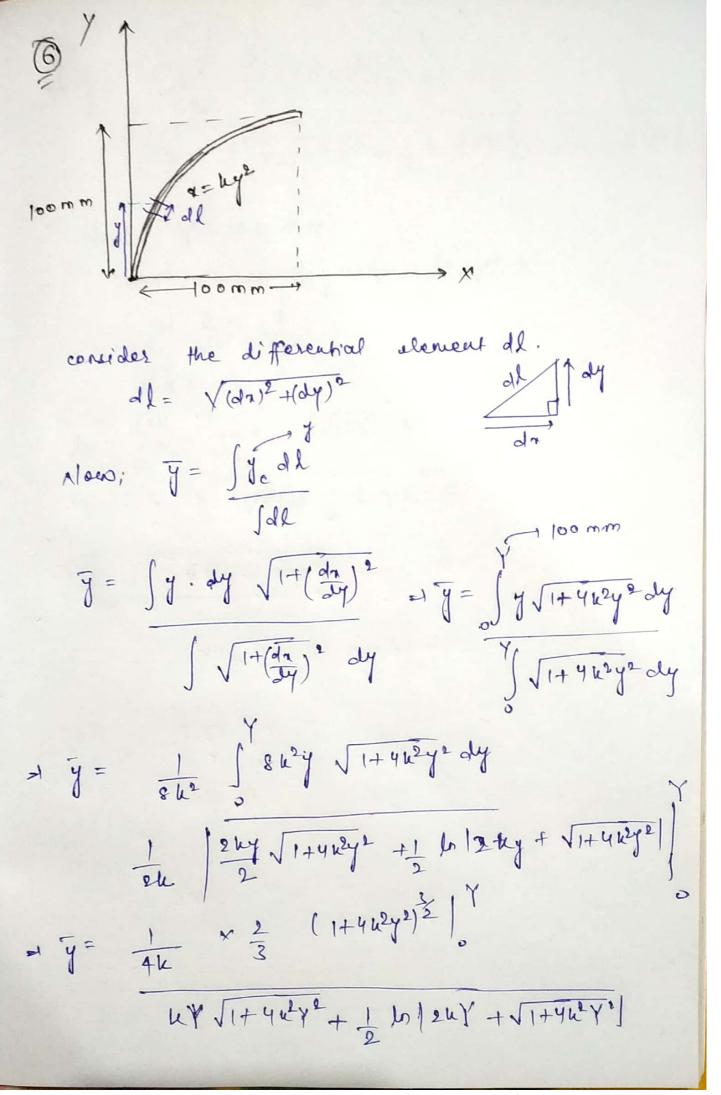
$$dA = \frac{b}{h}(h-y) dy$$

$$J = \int_{0}^{h} M_{b}(\frac{h+y}{m}) \frac{b}{k}(h-y) y dy$$

$$J = \int_{0}^{h} M_{b}(\frac{h+y}{m}) \frac{b}{k}(h-y) dy$$

$$J = \frac{h^{2} \cdot h^{2} - h^{4}}{h^{2} - h^{2}} = \frac{h^{4} \times 3}{2h^{3}} = \frac{3h}{8}$$

$$So: \boxed{7 = \frac{3h}{8}}$$



$$|y| = \frac{1}{6k} \left[ (1 + 4k^{2}Y^{2})^{\frac{3}{2}} - 1 \right]$$

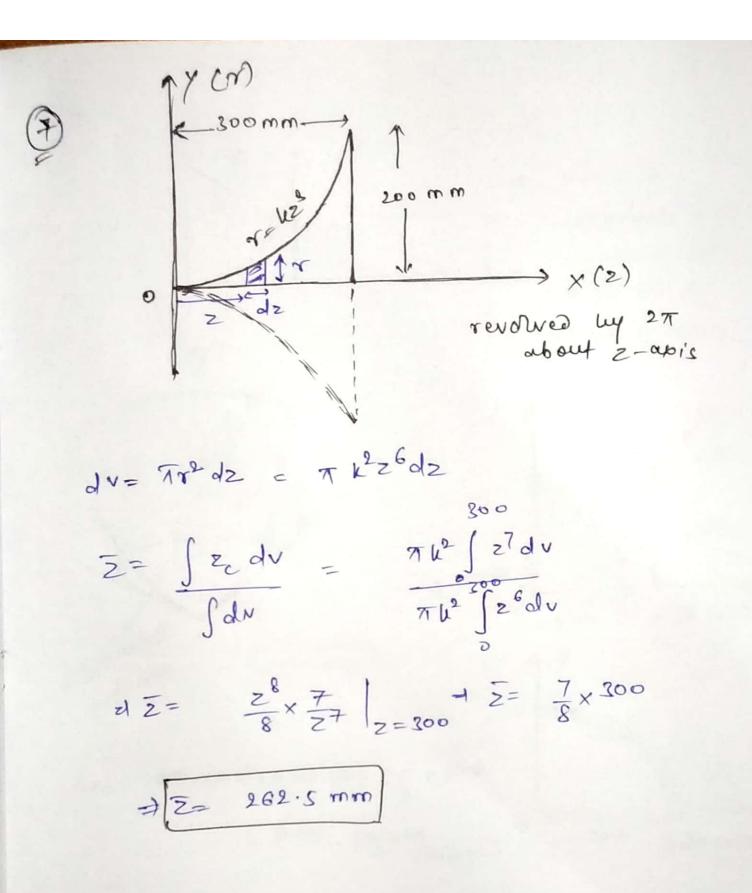
$$kY \sqrt{1 + k^{2}Y^{2} + 1} + \frac{1}{2} \ln |2kY| + \sqrt{1 + 4k^{2}Y^{2}}$$

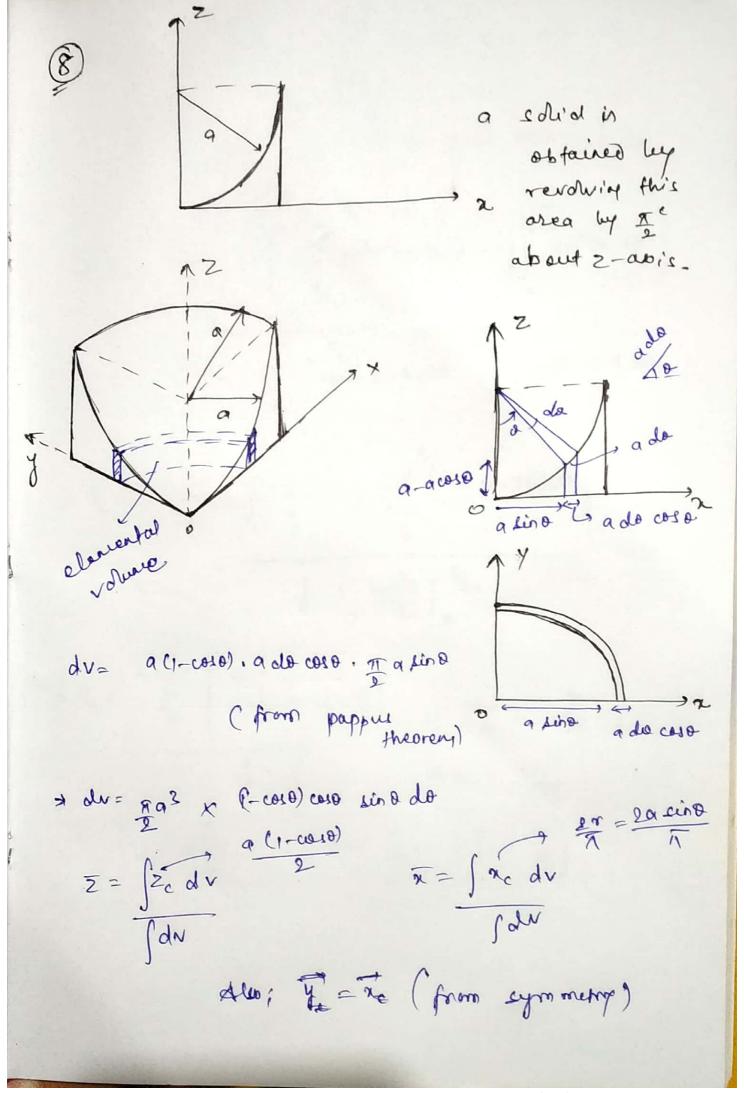
$$|x| = 100 \text{ Mm}.$$

$$|x| = 100 \text{ Mg}.$$

$$|x| = \frac{1}{100}.$$

$$|x$$





$$|A| = \frac{2\alpha}{\pi} \int_{0}^{\pi} \frac{1}{2} (1-\cos\theta) \cos\theta \sin\theta d\theta$$

$$|A| = \frac{2\alpha}{\pi} \left[ \int_{0}^{\pi} \sin^{2}\theta \cos\theta d\theta - \int_{0}^{\pi} \sin^{2}\theta d\theta \right]$$

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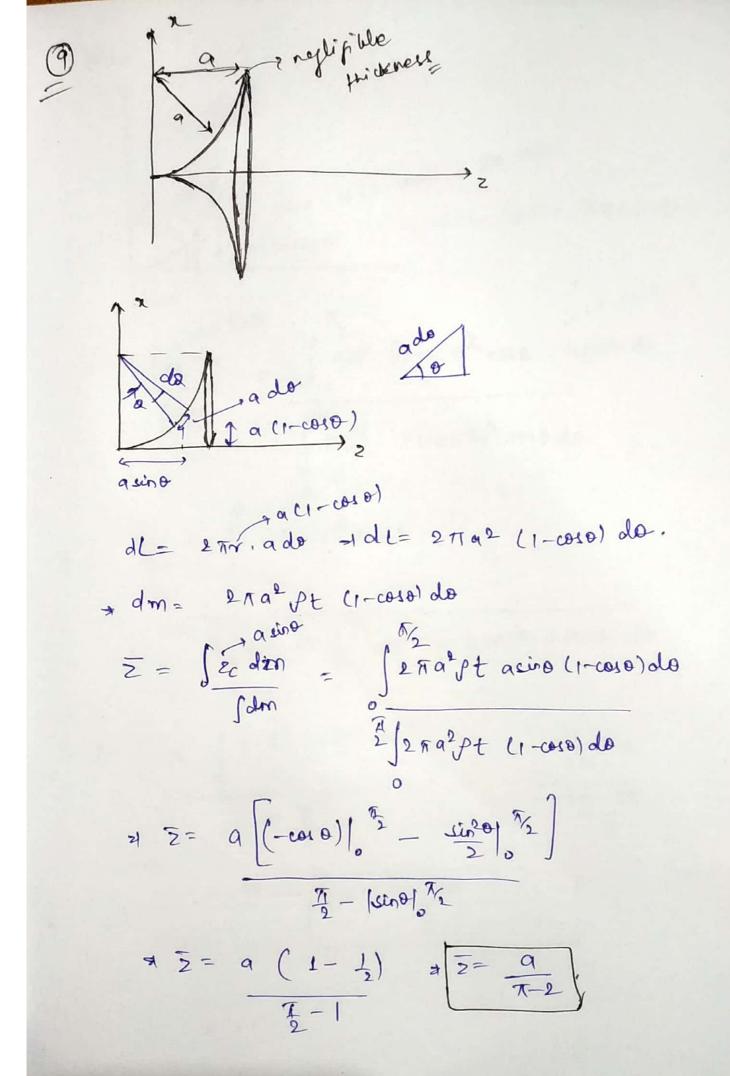
$$|A| = \frac{2\alpha}{\pi} \left[ \int_{0}^{\pi} \frac{1}{2} - \int_{0}^{\pi} \sin^{2}\theta d\theta - \int_{0}^{\pi} \sin^{2}\theta d\theta \right]$$

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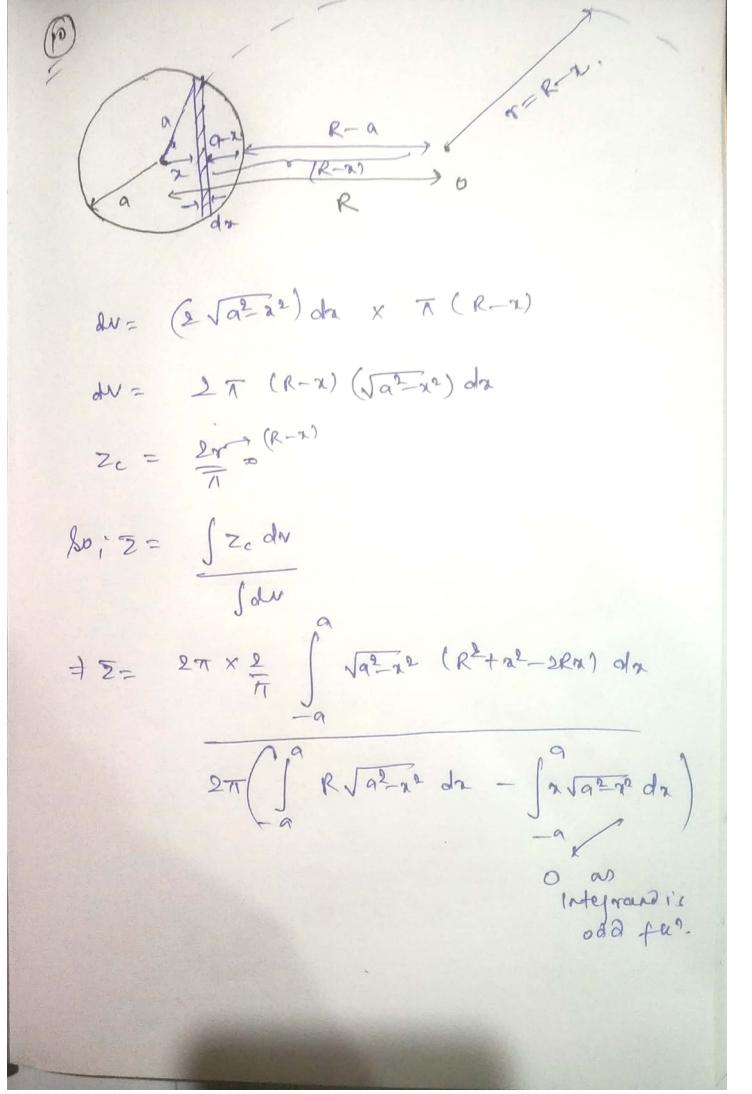
$$|A| = \frac{2\alpha}{\pi} \left[ \int_{0}^{\pi} \frac{1}{2} - \int_{0}^{\pi} \sin^{2}\theta d\theta - \int_{0}^{\pi} \sin^{2}\theta d\theta \right]$$

$$|A| = \frac{2\alpha}{\pi} \left[ \int_{0}^{\pi} \frac{1}{2} - \int_{0}^{\pi} \sin^{2}\theta d\theta - \int_$$

$$\overline{z} = \int z_{1} dd \frac{1}{2} \int z_{1} dd \frac{1}{2} \int z_{2} dd \frac{1}{2} \int z_{3} dd \frac{1}{2} \int z_{4} dd \frac{1}{2} \int z$$



Mous;  $d\theta$   $dA = \alpha (1-\cos\theta)$  and  $\cos\theta$ dv= (dA) x Ta (1-coso)  $\sum = \int_{\mathbb{Z}_{c}} du = \int_{\mathbb{Z}_{c}} \int_{\mathbb{Z}_{c}} du = t$   $\int_{\mathbb{Z}_{c}} du = \int_{\mathbb{Z}_{c}} \int_{$ 1 7 03 (1-cos 0)2 coso de 2= a - (1-t)2t dt 2 (costo de 1/2 costo - 2 costo + coso) de  $= \frac{1}{2} = a \int t(t^2-2t+1) dt = \frac{1}{12} \cdot a$ 3- A.+ L  $\frac{1}{2} = \frac{a}{2(10-3\pi)}$ 



$$Z = \frac{2}{\pi} \left( \frac{1}{2} \frac{1}{4} \frac{1}{4} \frac{1}{2} \frac{1}{4} \frac{1}{$$