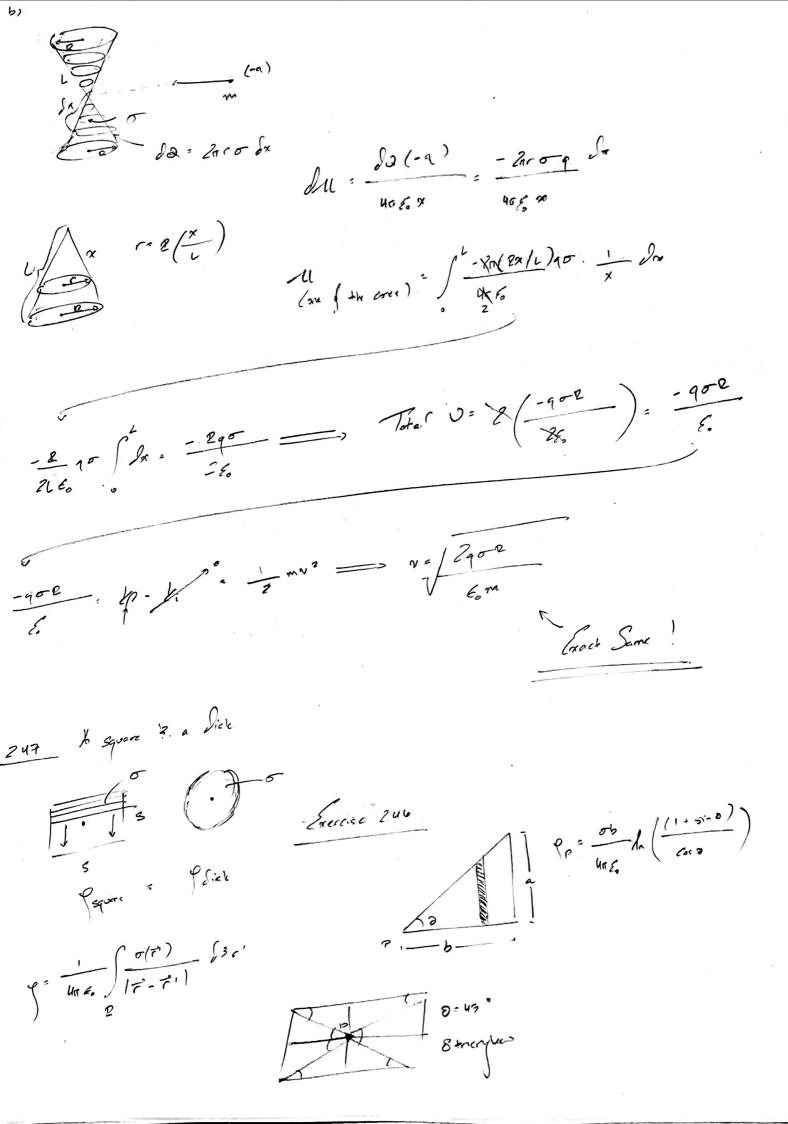
Physics assignmen 3 1.61. Bentil Surry & a Sphere (2) n= 76 7. 7 cv $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$ 2(urr:) = p(2)3 = for a small of, do = 4002 p dr (druge of abili) 406. (400)= 1 160 p2 r4 cr M= - 900 da $\mathcal{U}_{\text{hom}}: \int_{\text{Vir} \in \mathbb{R}_0}^{1} \frac{16\pi^2 \rho^2 - 4}{3} \mathcal{Q}_{\text{res}} \frac{1}{3} \frac{1$

11.3 Sphen & Cres

(1)

2)

$$\sqrt{2}$$
 $\sqrt{2}$
 $\sqrt{2}$



Police & Squere

$$\frac{\partial \mathcal{L}_{\alpha} \varphi}{\partial \alpha} = \frac{\partial}{\partial x} \left((b-x)^3 \right) = \frac{\partial}{\partial x} \left((b-x)^3 \right) = \frac{\partial}{\partial x} \left((b-x)^{-4} (-1) \right) = \frac{b\rho}{4\pi \, \mathcal{L}_{\alpha} \left((b-x)^3 \right)} = \frac{b\rho}{4\pi \,$$

$$\frac{\partial \mathcal{G}_{\mathcal{P}}}{\partial y} = \frac{-P}{4\pi \mathcal{G}} \left(\frac{\partial}{\partial y} \left(b + \alpha \right)^{-3} \right) = \frac{-P}{4\pi \mathcal{G}} \left(-3(b + \alpha)^{-4} \right) = \frac{3P}{4\pi \mathcal{G}} \left(b + \alpha^{-1} \right)^{4} = \frac{2P}{4\pi \mathcal{G}} \left(b + \alpha^{-1} \right)^$$

4a E. bu