b)
$$\vec{E}_{+q} = \frac{1}{4\pi\epsilon_{0}} \frac{4}{(a^{2}+b^{2})^{3/2}} \left(-a\epsilon + b\right)$$
 Coulonboling
$$\vec{E}_{-q} = \frac{1}{4\pi\epsilon_{0}} \frac{-q}{(a^{2}+b^{2})^{3/2}} \left(a\hat{i} + b\hat{j}\right)$$

$$\vec{E}_{++} = \hat{S}_{E_{i}} = \frac{1}{4\pi \epsilon_{o} (4^{2} + 4^{2})^{3/2}} \left(-2\alpha \hat{S}\right)$$

$$\vec{F} = Q \vec{E}$$

$$\vec{F} = (-Q) \left(\frac{-2aq2}{4\pi \epsilon_0} \cdot \frac{1}{(a^2 + b^2)^{3/2}} \right)$$

$$\vec{F} = \frac{2aq}{4\pi \epsilon_0 (a^2 + b^2)^{3/2}}$$

bussin Simple growts

chose ensity with tel with also allows me to could in the ful waster as I will appear in the cylodos crea and Denc. no verte l'emports/ dipond on any points of the so-fine (l'into cose)

b) It will point radicly octored at Ps as

a) 1 -: 11 use a cylida

with lastin 2, asit will

allow me to find the enclosed

The live is possibily charged and the bild:s

in the f direction.

c) Qenc = & chose 3. & losto 3 = Sel Que = Sel

d) $\phi_{E} = \oint \hat{E} d\hat{a} = E \left[da = Ea = E(2\pi r \mathbf{I}) \right]$

· À : n à drection so 0=0: cos 0 = 1

PE=EZTIL

· É doisn't diquid un creaty chore of Garsson son fue

e) Qenc = PE = E (2Trl)

{Qenc= } . 1 } from (c)

(Gusslen) $\frac{\int l}{\xi_0} = E(2\pi r l) \Rightarrow \dot{E} = \frac{\int}{2\pi r \xi_0} \hat{r}$ Min of deto A