P = qd E= Es & positive & directo E= Fa. Ftg = Eog+ F = Eq F-q = Fo q-T= PXF = PSIND F T=P = Eusine Z= PXE = Theo E(1)= \frac{\fir}\f{\frac{\frac{\fracc}\frac{\frac{\frac{\frac{\frac{\fracc}\f ルニマナ× 1 2 = 22-XX X 2= 1 - 22-xx 1/2 (22+x2) 1/2

$$AE = k \times d \times \frac{(2\hat{z} - x\hat{z})}{(2^2 + x^2)^{3/2}}.$$

$$= \frac{1}{(\lambda^{2} + \lambda^{2})^{3/2}} \times \hat{\lambda} \left(\frac{\lambda^{2} + \lambda^{2}}{(\lambda^{2} + \lambda^{2})^{3/2}} \right)$$

 $\operatorname{Wolder} \left\{ \begin{array}{c} x \\ \overline{z} \\$

$$0 - \frac{1}{2} = \frac{1}{2} =$$

Qenc = > dx (slice) total E= S Xdx The Entire I some set up a) = 4 Eo (2 + (2 - 1) & Part E, = o 26 ()b) E= 01+ 2 E0 F= 0x2x + 0x3 4 TY W 3- $\oint \vec{E} \cdot d\vec{\ell} = 0$ P-W - () E. Je = V (b) - V(2) $-\int_{a}^{b}-Wd\hat{e}=\int_{a}^{b}V'dd=V(b)+V(a)$ · V(7)z - \ \ \E(1)d(' 2 E= kg?