



Para calcular el flujo hacia avisa a hacida C vamos a inthe entar el campo vectival en C

$$F(x,y,t) = (x, S_{17}(t), (c_{5}(y^{2})))$$

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$$= \frac{\int_{-\infty}^{\infty} \frac{4kH}{2kI}}{2kI} = \frac{3}{(4kH)} = \frac{3}{(4kH)}$$

Ejeruis. La ley de Coulomb dree que el campo reléctico podudo par una cagar en el

orgen es  $\int H(\vec{x}) = Q \frac{\vec{x}}{l|\vec{x}|^3}$ 

(a) Calcule el plyo de H hacin apra de una espa de radio Roestada en (0,0,0)

poranehondo la estra

(b) Calcul du (H)

(C) Calcule el flyo de Ha huis de la fortra del ludillo -2 ≤ X, 7,7 ≤ 2.

Si A es ma espa alada en (0,0,0)

 $\widehat{N}(\vec{x}) = \frac{\widehat{x}}{\|\widehat{x}\|}$ 

 $H \cdot \hat{\mathbf{n}} = Q \frac{\vec{x}}{\|\mathbf{x}\|^2} \cdot \frac{\mathbf{x}}{\|\vec{\mathbf{x}}\|} = Q$   $R^2 = Q$   $R^2 = Q$ (4TIQ) espad adio R