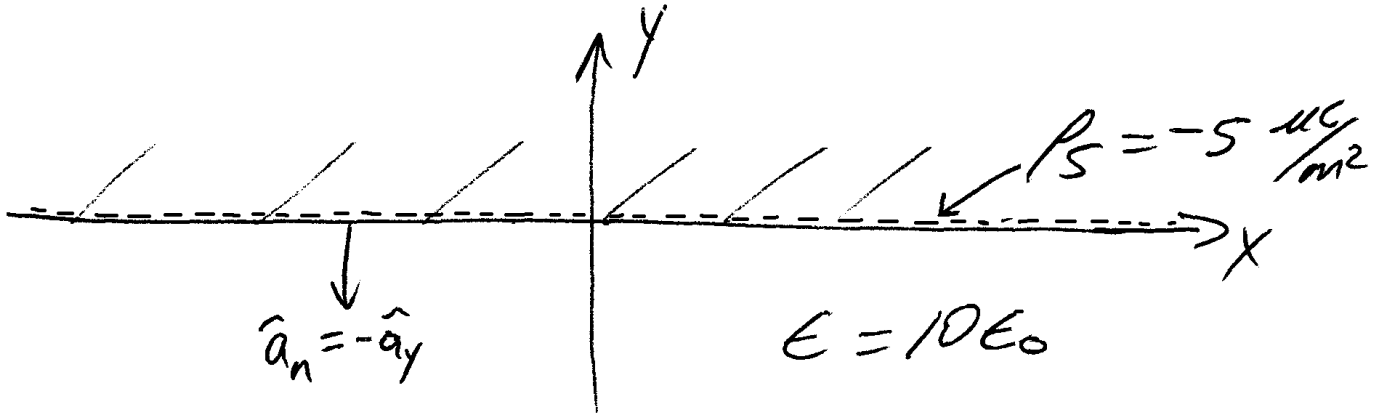


ex. Find \vec{D} & \vec{E} near interface



$$|\vec{D}_n| = \rho_s = -5 \mu\text{C}/\text{m}^2$$

$$\vec{D} = \hat{a}_n \rho_s = \underline{\underline{+\hat{a}_y 5.0 \mu\text{C}/\text{m}^2}} \leftarrow \begin{array}{l} \text{Terminate} \\ \text{on } \rho_s \end{array}$$

$$\vec{E} = \frac{\vec{D}}{\epsilon} = \frac{\hat{a}_y 5.0 \times 10^{-6}}{10(8.854 \times 10^{-12})}$$

$$\underline{\underline{\vec{E} = \hat{a}_y 56,471.65 \text{ V}/\text{m}}}$$