

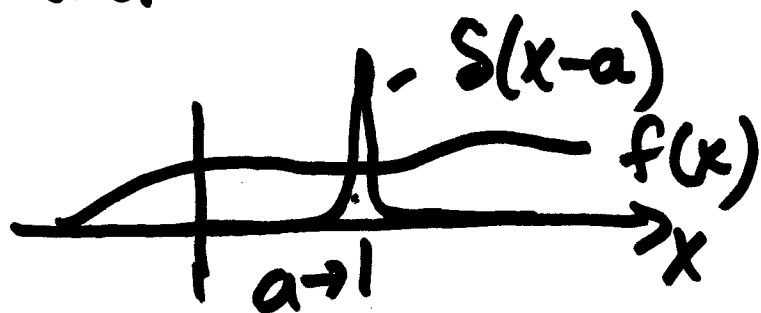


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 $\hat{Q} \sim \text{m}^3/\text{s}$  Source Strength

 $\hat{q}(\vec{r}_0) \sim \text{m}^3/\text{s} / \text{m}^3 \sim 1/\text{s}$  Source strength density

Recall "pickers-out" property of the Dirac delta function

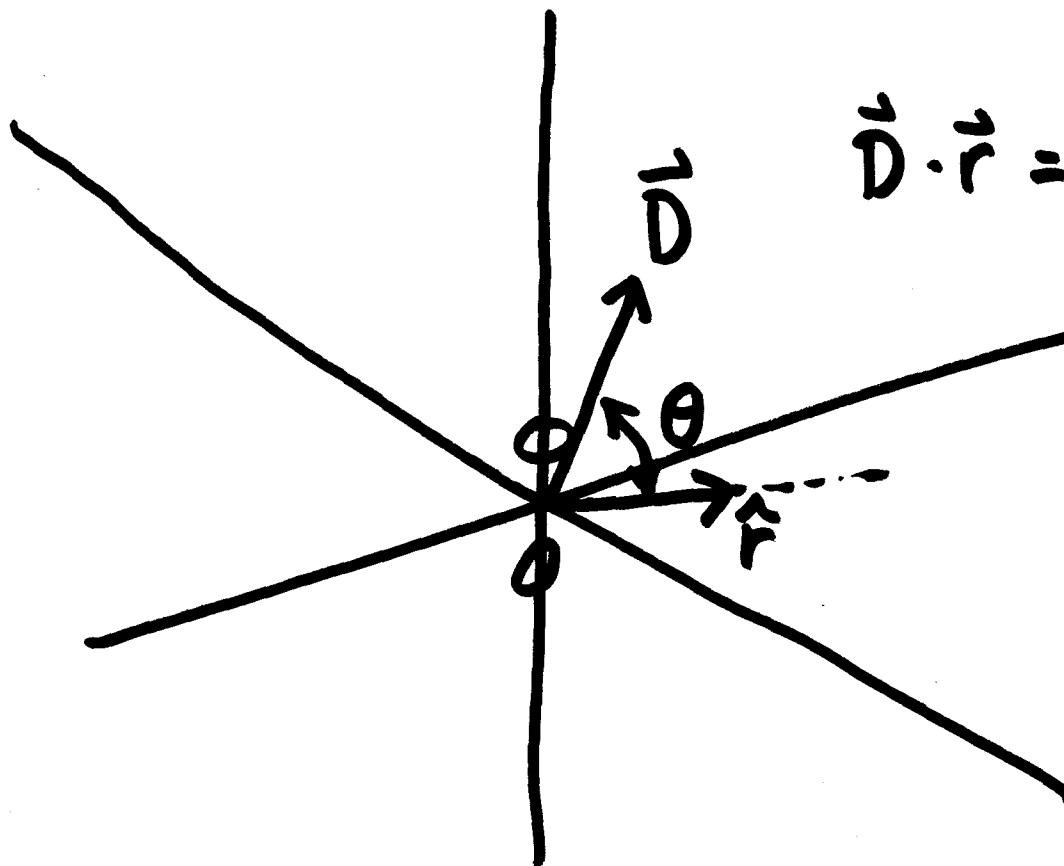


$$\int_{-\infty}^{\infty} \delta(x-a) dx = 1$$

$$\int_{-\infty}^{\infty} \delta(x-a) f(x) dx = f(a)$$



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$$\vec{D} \cdot \vec{r} = |\vec{D}| |\vec{r}| \cos \theta$$

Dipole