

## Gauss's Law

$$\begin{aligned}\Phi_E &= \oint \vec{E} \cdot d\vec{A} \\ &= \frac{q_{encl}}{\epsilon_0}, \quad \text{where } \epsilon_0 = 8.85 \times 10^{-12} \frac{C^2}{N \cdot m^2}\end{aligned}\tag{1}$$