## Review of Ch 2, Electrostatics




How would you find the energy in the above problem?

$$
W=\frac{1}{2} \varepsilon_{0} \int E^{2} d \tau \quad \stackrel{\Delta R}{2} \quad W=\frac{1}{2} \int V d q_{0}=\frac{1}{2} \int \rho V d \tau
$$

Which is easier?
Only need the inside





How about energy? You could integate the field, but it's easier to use $W=C V \wedge 2 / 2$.

