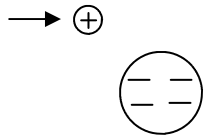




6. A parallel plate capacitor has a capacitance of  $4\mu\text{F}$  and hold  $8\mu\text{C}$  of charge on one plate.
- A. What is the net charge of the capacitor?
- B. What is the stored potential energy?



7. A small positive charge is moving toward a massive negatively charge cyclotronic generator. Draw the path of the positive charge.

6A. You should know this = 0 C (always)

6B.  $PE = \frac{1}{2}QV$  and a farad = C per volt. Find V first.  $V = 2\text{v}$ , so  $PE = 8\text{E-}6\text{joules}$

7. Opposites ALWAYS attract, so it will curve toward the neg charged object, whatever it is.