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Physics 40C

Dr. Sales

1. Rod is rubbed to charge of -8 nC

a) were p^+ ~~added~~ or e^- added

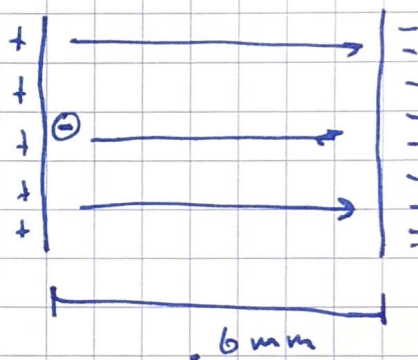
b) how many e^- / p^+ were moved

2. Parallel - Plate Capacitor

$$E = 50 \frac{\text{N}}{\text{C}}$$

$$d = .6 \text{ mm}$$

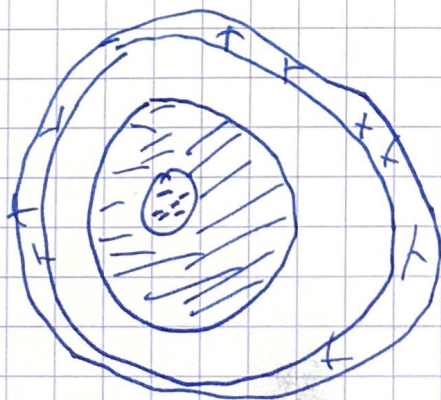
$$q = -e$$



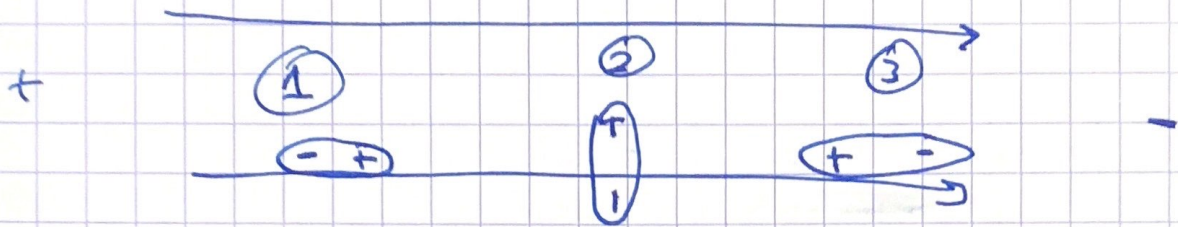
What initial velocity is needed to move e^- across plates to $(-)$ side?

How much Work?

3.



4. Motion of a dipole in Const. \vec{E}



$$\vec{\tau} = \vec{r} \times \vec{F} \Rightarrow |\tau| = |\vec{r}| |\vec{F}| \sin \theta$$