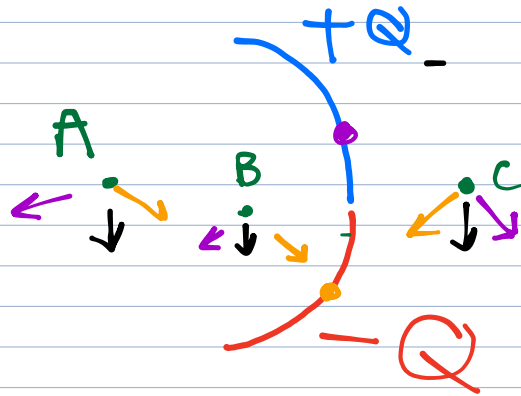We worked on the tutorials for ch 05.

P.78 #5

P.78 #7   +Q [diagram] polarization is induced

and the e⁻s on the left pull harder on +Q than

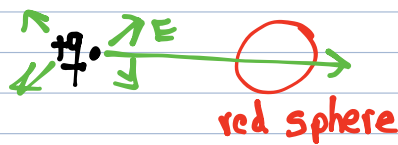the p⁺s on the right push on the +Q

ch 06 — Flux

We checked out the open source simulation (see class website)

- increase charge → increase flux
- change charge sign ⇒ change sign of flux

follow-up   [diagram] flux = 0 in this case with
            red sphere   no enclosed charge

Killer bee flux (ch 06 s1.html)

∴ $\vec{B}$ $\mapsto \vec{A}$ area A   lots of bees pass thru

⋮ $\vec{A}$ fewer bees pass

killer bee flux $\propto$ cosine angle between $\vec{B}$ and $\vec{A}$

$$= BA\cos\theta = BA\hat{\lambda}\cdot\hat{n} = \vec{B}\cdot\vec{A}$$