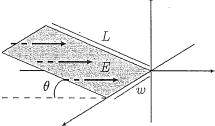
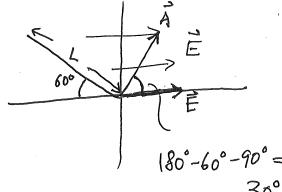
PHY 232 Summer 2016 Class Work Class 4. Electric Flux

An electric field with magnitude $E_0 = 8$ V/m is passing through a leaning plane with length L = 2 m and width w = 5 m. $\theta = 60^{\circ}$.



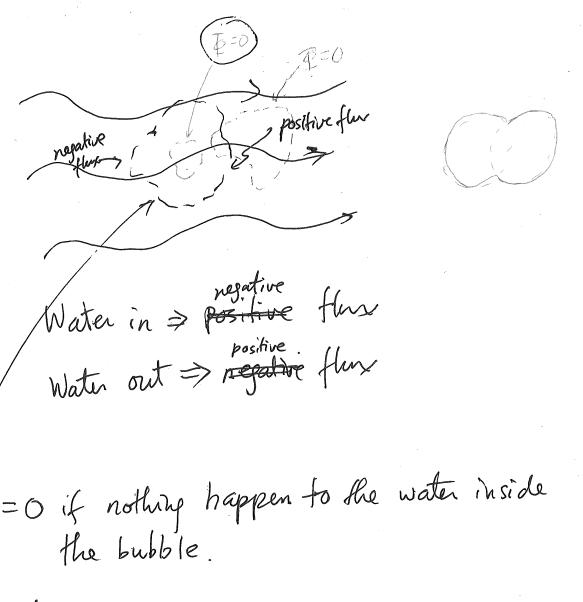
(a) Calculate the elegtric flux through the plane in Nm2/C.



(b) At what angle of $\boldsymbol{\theta}$ would the electric flux be maximized?

重=|E||A| cosd is max. when cosd=| => d=0°. i.e. when 0=90°-d=90°.

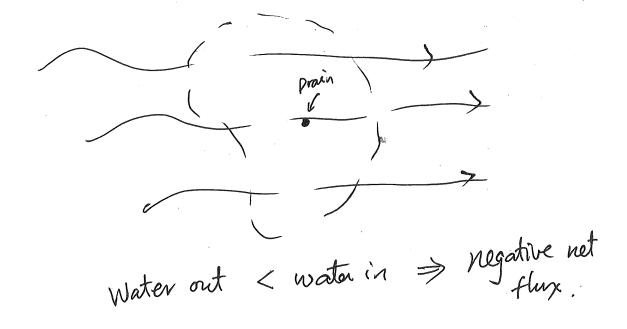
(c) At what angle of $\boldsymbol{\theta}$ would the electric flux be 0?



If there

Independent of the bubble size and spt shape, or even the details of the water flow.

With drain inside the bubble



With somce in.

Water out > water in => positive net flux.