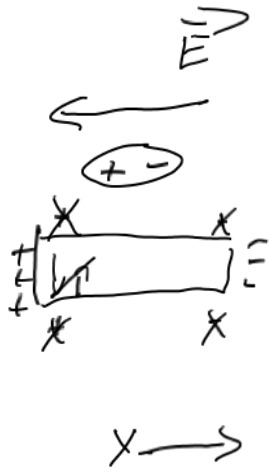


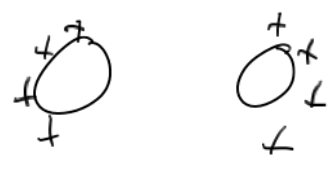
Quiz

Mid term

1)



2)





$$|E_{pol,d}| = |E_{dip,d}| = \frac{1}{4\pi\epsilon_0} \frac{p}{d^3}$$

$$|E_{pol,3d}| = |E_{dip,3d}| = \frac{1}{4\pi\epsilon_0} \frac{p}{(3d)^3}$$

$$\frac{E_{pol,3d}}{|E_{pol,d}|} = \frac{\frac{1}{4\pi\epsilon_0} \frac{p}{27d^3}}{\frac{1}{4\pi\epsilon_0} \frac{p}{d^3}} = \frac{1}{27}$$

Charged up table

Physics is Fun