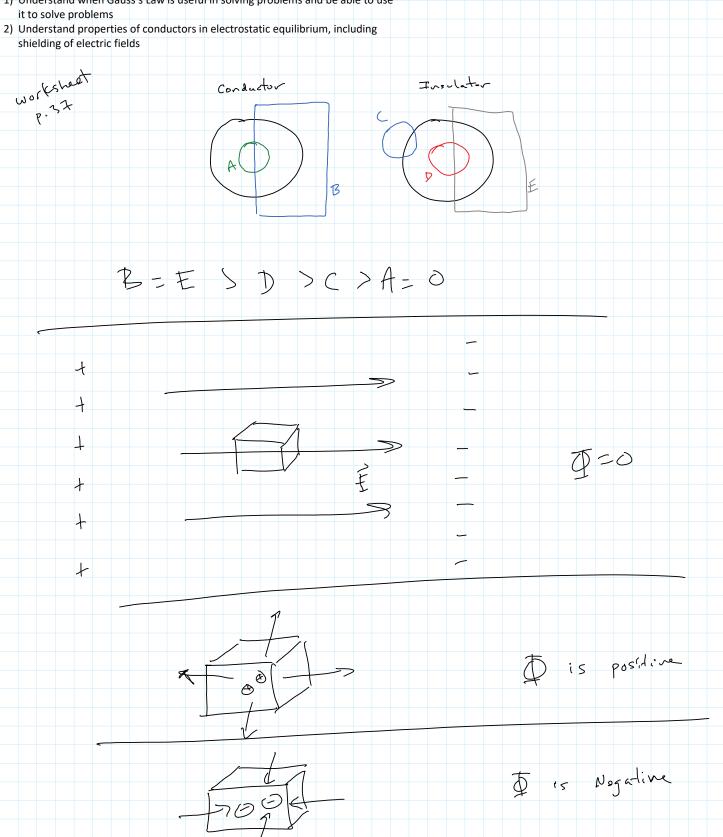
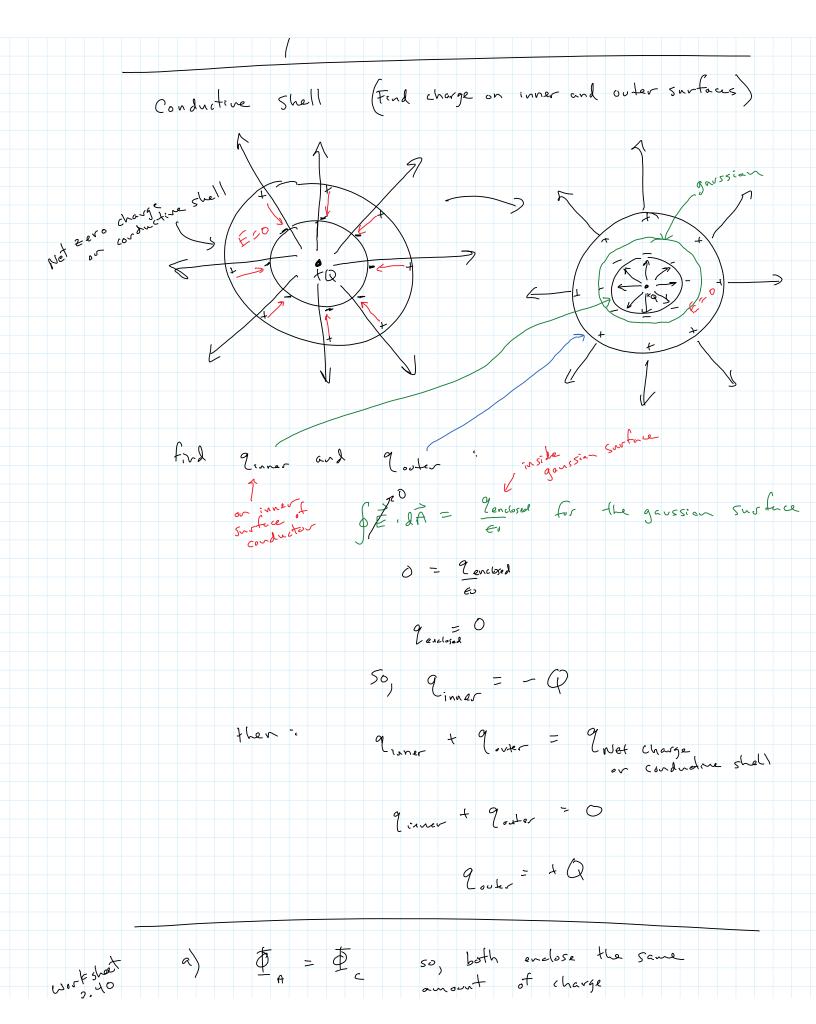
Goals for the Lecture:

1) Understand when Gauss's Law is useful in solving problems and be able to use





(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	so, both endose the same c amount of charge
	so, the confudence shell has
9. ter	$= -Q_0$ $= +Q_0$ $= +Q_0$ $= +Q_0$
	A so, charge on conductive shell must be $+2Q_0$
	= -Qo most cancel +Qo inside cavity
	ner + 9 - 1 + 2 Qo
	9 over = +3 Qo
c)	912 - + Qo Eo
$1) \qquad \overline{\Phi}_{c} = 0$	so, Not charge on conductive shell must be -Qo
Cinner	= - Q ₀
quant quiter = -Qo	
	Pouter = 0
Conductors in electrosta	
	ge goes to outer most surface
$\frac{1}{2} = 0 \text{ins}$ $\frac{1}{3} = 1 \text{fo}$	surface (just outside of conductor)
	AÉ .

