ECEN 3400, HW assignment 3

Material: Chapters 7-9
Assigned: Friday, Sept 16
Recital: Monday, Sept 19
Due: Friday, Sept 23, beginning of class (4 pm)

Problems:
P7.8 Think about what tools you have available – this is not a very hard one.
P7.17 We haven’t done too many problems where you need to take derivatives in non-Cartesian systems, so let’s give it a try.
P8.2 A weird situation, but will force you to work through the definition of capacitance.
P8.16 This will force you to think about E, D, and P fields and get them straight.
P9.7 Good basic problem on energy density
P9.15 Application of electrostatic energy and using it to find the force.