

Assignment 3
PHGN361

Homework due Feb. 2 (solutions posted on Monday and first exam on Feb. 2)

1. Chapter 1 problems 55, 58.
2. A measurement of the electric field near the ground yields a value $-100\hat{y}$ N/C. A measurement at $y = 10$ m yields $-90\hat{y}$ V/m. Assume the field points perpendicular to the earth. What is the charge density in atmosphere (assume it is uniform).
3. Chapter 2 problems 36, 39, 40, 43(PMC), 51(PMC)