

Math 241 - Section C1H - Homework 12

Assigned: 4/10/08

Due: 4/16/08 at the start of class.

Notation: Exercise a.b.c stands for Exercise c from Section a.b.

Problems to hand in:

- (1) 7.3.17.
- (2) 7.4.6.
- (3) 7.4.12.
- (4) 7.4.17.
- (5) Use Gauss' law to compute the electric field generated by an infinite line of charge placed on the z -axis with constant charge density ρ . (I started this in class and explained the main ideas; I'd like you to work out the details).
- (6) 7.5.12.
- (7) 7.5.13.