Workshop 3

Physics 122 Electricity and Magnetism July 13, 2010

Please work on the following problems in groups of 3-4:

Giancoli Chapter 24:

- 1. When a battery is connected to a capacitor, why do the two plates acquire charges of the same magnitude? Will this be true if the two conductors are different sizes and shapes?
- 2. An isolated charged capacitor has horizontal plates. If a thin dielectric is inserted a short way between the plates on the right-hand side, will it move left or right when it is released?

Problems 24-8 24-37 24-45

24-60