## Questions

- 1. A balloon gains a charge of -3.7 pC after being rubbed on your hair. How many excess electrons is this?
- 2. In an experiment, moving a charge through an electric field requires 11 eV of work. How much work is this in Joules?
- 3. Calculate the electric force between two electrons if their centers are  $2.7 \times 10^{-3}$  meters apart.
- 4. A charge of +48 C experiences a force of 0.8 N when located a certain position in the electric field produced by a second charge. What is the magnitude of the electric field strength at that point?
- 5. If 56 joules of work is required to move 7.0 coulombs of charge between two plates, the potential difference between the two plates is

Sketch the following graphical relationships

## Electrostatics

Name
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## Definitions

1.	Electrostatics
2.	Insulators -
3.	Conductors -
4.	Grounding
5.	Polarization
6.	Conduction -
7.	Induction -
8.	Electric Field
9.	Electric Potential Energy
10.	Potential Difference
11.	Electronvolt

보이Uations (on Reference Tables)			
1.	2.		
3.	4.		
5.			
Equations (not on Reference Tables)  6. 7.			
8. Draw the electric field	around each case below.		
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<u>-</u>	++++++		