Review Notes for chapters 21 - 23

Introduction
These chapters examine the basic properties of the electric field.

I Basic Laws and Properties you should know and understand.
1. Definition of $E$ in terms of Force.
2. Gauss' Law
3. Conservative nature of electric field.

... you should be able to ...
* draw field lines
* employ symmetry and superposition
* derive Coulomb's law
* parametrize physical integrals for continuous charge distributions
* discuss electrostatic properties of conductors

II Potential Difference is the most important derived quantity.
You should ...
1. Know the definition in terms of work
2. Know the line integral expression
3. Know the expression in terms of point-charge contributions
4. Be able to draw equipotential surfaces from field lines
5. Graph $V$ in simple situations and know how to shift the reference point.