Exam #1 Formula Sheet

### Constants

### Electric Fields

* for infinite planes

|  |  |
| --- | --- |
| Voltage, Power, & Potential Energy | Capacitance |
|  | * for parallel capacitors * for capacitors in series |

|  |  |  |
| --- | --- | --- |
| Cylindrical Capacitors | Spherical Capacitors | Planar Capacitors |
|  |  | * with dielectrics |

### Kirchhoff’s Laws

* The sum of the voltage changes around any loop is 0
* The sum of the currents into a junction equals the sum of the currents out of a junction