

# AP Physics C: Mechanics: Formula Sheet

| I   | II  | III   | IV  | V  | VI  |
|---|---|---|---|--|---|
| Uniform fields or nonlinear fields that are drawn.  | Point charge $q$ superposition  | Sphere with charge $Q$ and sphere within a sphere   | Arc with Point $P$ at center of the arc   | Hoop with $P$ offset along an axis passing thru center   | Cylinder  |
| $E$ given (or $V$ is given)   | All four of these problems use the same equation derived from Gauss's Law   |   |   |  | $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$   |
| If $V$ is given instead of $E$  | $\oint \vec{E} \cdot d\vec{A} = \frac{Q_{enc}}{\epsilon_0}$   |   |   |  | $E(2\pi r l) = \frac{Q_{enc}}{\epsilon_0}$  |
| you can use the equation $E = -\frac{dV}{dr}$ to solve for $E$ .  | Use $E = k\frac{q}{r^2}$ to find All the individual $E_i$ vectors due to each charge $q_i$ acting a point $P$ . Add all the individual $E_i$ vectors to find the total electric field $E$ . | Use $E = k\frac{Q_{enc}}{r^2}$ to find $E$ at various points (inside the sphere $r < R$ , on its surface $r = R$ , and outside the sphere $r > R$ ).  | $E = k\frac{Q}{r^2}$<br>$dE = k\frac{dq}{r^2}$<br>$\int dE_x = \int k\frac{dq}{r^2} \cos \theta$  | $E = k\frac{Q}{r^2}$<br>$dE = k\frac{dq}{r^2}$<br>$\int dE_x = \int k\frac{dq}{r^2} \cos \theta$   | $E = \frac{Q_{enc}}{2\pi r l \epsilon_0}$<br>$\lambda = \frac{Q}{L}$<br>$E = \frac{\lambda}{2\pi r \epsilon_0}$                                 |
| Usually these problems involve uniform fields or when non-uniform they allow you to find average $E$ between two equal potential line values. | If a new charge appears at point $P$ , then you can find the force on the new charge due to the field $E$ .<br>$F_E = q_{new} E_{total}$  | $r < R$ in an insulator<br>$\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$<br>$\frac{Q_{enc}}{\left(\frac{4}{3}\right)\pi r^3} = \frac{Q_{total}}{\left(\frac{4}{3}\right)\pi R^3}$ | Density<br>$\lambda = \frac{Q}{L} = \frac{dq}{dl}$<br>$E_x = \int \frac{kQ}{r^2 L} dl \cos \theta$<br>$r = R$<br>Arc length $dl = R d\theta$<br>$E_x = \int \frac{kQ}{RL} \cos \theta d\theta$<br>$E_x = \frac{kQ}{RL} \int_{\theta_1}^{\theta_2} \cos \theta d\theta$<br>$E_x = \frac{kQ}{RL} (\sin \theta_2 - \sin \theta_1)$ | $E_x = \frac{k}{r^2} \cos \theta \int dq$<br>$E_x = \frac{kQ}{r^2} \cos \theta$<br>$\cos \theta = \frac{r}{\sqrt{R^2 + x^2}}$<br>$E_x = \frac{kQx}{(R^2 + x^2)^{3/2}}$ | $r < R$ in an insulator<br>$\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$<br>$\frac{Q_{enc}}{\pi r^2 L} = \frac{Q_{total}}{\pi R^2 L}$ |
| $E = \frac{V}{d}$   |   |   |   |  |   |

# Ap Physics C Study Guide

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