

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 $r > R$).	$E = k\frac{Q}{r^2}$ $dE = k\frac{dq}{r^2}$ $\int dE_x = \int k\frac{dq}{r^2} \cos \theta$	$E = k\frac{Q}{r^2}$ $dE = k\frac{dq}{r^2}$ $\int dE_x = \int k\frac{dq}{r^2} \cos \theta$	$E = \frac{Q_{enc}}{2\pi r l \epsilon_0}$ $\lambda = \frac{Q}{L}$ $E = \frac{\lambda}{2\pi r \epsilon_0}$
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 . $F_E = q_{new}E_{total}$	$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\left(\frac{4}{3}\right)\pi r^3} = \frac{Q_{total}}{\left(\frac{4}{3}\right)\pi R^3}$	Density $\lambda = \frac{Q}{L} = \frac{dq}{dl}$ $E_x = \int \frac{kQ}{r^2 L} dl \cos \theta$ $r = R$ Arc length $dl = R d\theta$ $E_x = \int \frac{kQ}{RL} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} \int_{\theta_1}^{\theta_2} \cos \theta d\theta$ $E_x = \frac{kQ}{RL} (\sin \theta_2 - \sin \theta_1)$	$E_x = \frac{k}{r^2} \cos \theta \int dq$ $E_x = \frac{kQ}{r^2} \cos \theta$ $\cos \theta = \frac{r}{\sqrt{R^2 + x^2}}$ $E_x = \frac{kQx}{(R^2 + x^2)^{3/2}}$	$r < R$ in an insulator $\frac{Q_{enc}}{V_{enc}} = \frac{Q_{total}}{V_{total}}$ $\frac{Q_{enc}}{\pi r^2 L} = \frac{Q_{total}}{\pi R^2 L}$
$E = \frac{V}{d}$					

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Robert A. Pelcovits, Joshua Farkas



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