

AP Physics C: Mechanics:: Formula Sheet

9.0		808	IV	V:	W
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) If V is given instead of E you can use the equation E = - \frac{dV}{dr} to solve for E. Usually these problems involve uniform fields or when non-uniform they allow you to find average E between two equal potential line values. E = \frac{V}{d}	All four of the $\oint \vec{B} \cdot d\vec{A} = S$ Use $\vec{E} = k \frac{9}{2}$ to find All the individual \vec{E}_i , vectors due to each charge q_i acting a point P . Add all the individual \vec{E}_i vectors to find the total electric field \vec{E} . If a new charge appears at point P , then you can find the force on the new charge due to the field \vec{E} . $\vec{F}_E = q_{mem}\vec{E}_{Total}$	wese problems use the same $\frac{R_{\rm con}}{r_{\rm a}} = \frac{E(4\pi r^2)}{r_{\rm a}} = \frac{9cm}{r_{\rm a}}$ Use $E = k \frac{9cm}{r_{\rm co}}$ to find E at various points (inside the sphere $r < R$, on its surface $r = R$, and outside the sphere $r > R$).			$\begin{split} \oint \vec{B} \cdot \vec{dA} &= \frac{Q_{onc}}{\epsilon_0} \\ \mathcal{E}(2\pi r l) &= \frac{Q_{onc}}{\epsilon_0} \\ \mathcal{E} &= \frac{Q_{onc}}{2\pi r l \epsilon_0} \\ \lambda &= \frac{Q}{L} \\ \mathcal{E} &= \frac{\lambda}{2\pi r \epsilon_0} \\ r < R \text{ in an insulator} \\ \frac{Q_{onc}}{V_{onc}} &= \frac{Q_{const}}{V_{total}} \\ \frac{Q_{onc}}{\pi r^2 L} &= \frac{Q_{const}}{\pi r^2 L} \end{split}$

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