Answer on Question \#68365, Physics / Electromagnetism
At a point that is 3 meters away from a 3 -coloumb point charge, the electric field intensity in $\mathrm{N} /$ coloumb, that the charge produces is equal to?

Find: E- ?
Given:
$\mathrm{a}=3 \mathrm{~m}$
$q=3 C$
$\varepsilon_{0}=8.85 \times 10^{-12} \mathrm{~F} / \mathrm{m}$
$\varepsilon=1$
Solution:
The electric field intensity of point charge:
$\mathrm{E}=\frac{1}{4 \pi \varepsilon_{0}} \frac{|\mathrm{q}|}{\varepsilon \mathrm{a}^{2}}(1)$
Of (1) $\Rightarrow \mathrm{E}=3 \times 10^{9} \mathrm{~N} / \mathrm{C}$

## Answer:

$3 \times 10^{9} \mathrm{~N} / \mathrm{C}$
Answer provided by https://www.AssignmentExpert.com

