

Physics 2135 Final Exam

May 15, 2015

Exam Total

200 / 200

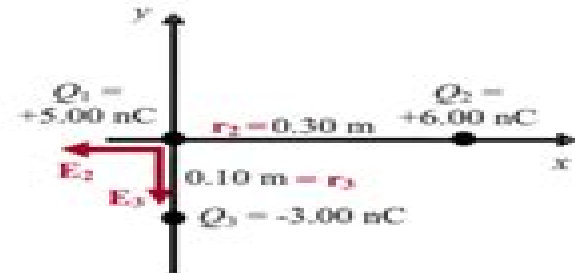
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1. (40 points total) Three point charges are arranged as shown.

(a) (30 points) Using the coordinate system given, calculate the electric field at the origin produced by Q_2 , the 6.00 nC charge, and Q_3 , the -3.00 nC charge. Express your answer in unit vector notation.

$$\begin{aligned}\vec{E} &= \vec{E}_2 + \vec{E}_3 & E &= \frac{k|Q|}{r^2} \\ &= -\frac{k|Q_2|}{r_2^2} \hat{i} - \frac{k|Q_3|}{r_3^2} \hat{j} \\ &= -\frac{(9 \times 10^9)(6 \times 10^{-9})}{0.3^2} \hat{i} - \frac{(9 \times 10^9)(3 \times 10^{-9})}{0.1^2} \hat{j} \\ &= \boxed{-600 \frac{\text{N}}{\text{C}} \hat{i} - 2700 \frac{\text{N}}{\text{C}} \hat{j}}\end{aligned}$$



(b) (10 points) Find the force on the 5.00 nC charge at the origin. Express your answer in unit vector notation.

$$\begin{aligned}\vec{F} &= q\vec{E} = (+5 \times 10^{-9})(-600 \hat{i} - 2700 \hat{j}) \\ &= \boxed{-3 \times 10^{-6} \text{ N } \hat{i} - 1.35 \times 10^{-5} \text{ N } \hat{j}}\end{aligned}$$

you can also apply
 $F = \frac{k|Q_1Q_2|}{r_{12}^2}$
but it's more work!

Nc Released Exam Physics

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