



PHYS 102 – General Physics II Midterm Exam 1

Duration: 120 minutes

Saturday, 11 March 2017, 10:00

1. Three point charges are placed at the corners of a square of side a as shown in the figure.

(a) (12 Pts.) Find the electric field (vector) at the fourth corner.

(b) (13 Pts.) Find the total potential energy of the charge distribution.

Solution:

(a) We calculate the electric field of each charge at the upper right corner according to the coordinate system indicated in the figure.

$$\text{With } k = \frac{1}{4\pi\epsilon_0}.$$

$$\vec{E}_1 = k \frac{Q}{a^2} \hat{i}, \quad \vec{E}_2 = k \frac{Q}{a^2} \hat{j} \quad \text{and} \quad \vec{E}_3 = k \frac{-2Q}{(\sqrt{2}a)^2} \left(\frac{\sqrt{2}}{2} \hat{i} + \frac{\sqrt{2}}{2} \hat{j} \right).$$

By the superposition principle, the electric field is the vector sum

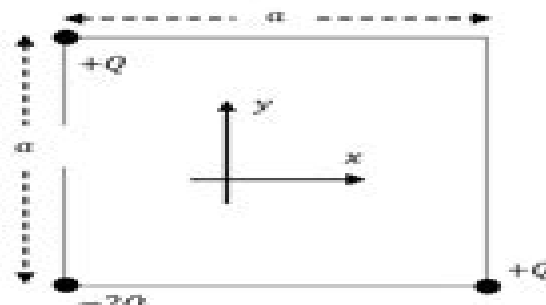
$$\vec{E} = \vec{E}_1 + \vec{E}_2 + \vec{E}_3 = \left(1 - \frac{\sqrt{2}}{2} \right) k \frac{Q}{a^2} (\hat{i} + \hat{j}).$$

(b) The total potential energy of a charge distribution is given by the expression

$$U = k \left(\frac{Q_1 Q_2}{r_{12}} + \frac{Q_1 Q_3}{r_{13}} + \frac{Q_2 Q_3}{r_{23}} \right).$$

This means

$$U = k \left(\frac{Q^2}{\sqrt{2}a} - \frac{2Q^2}{a} - \frac{2Q^2}{a} \right) = - \left(4 - \frac{1}{\sqrt{2}} \right) k \frac{Q^2}{a}.$$



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