

Following Exercise questions are **IMPORTANT!**

2.4, 2.5, 2.13, 2.14, 2.16, 2.17, 2.18, 2.19, 2.22, 2.23, 2.27, 2.28, 2.29, 2.30, 2.31

**D2.1 (a).**  $Q_A = -20\mu C$  located at A(-6,4,7) ,  $Q_B = 50\mu C$  located at B(5,8,-2)  
Find  $\vec{R}_{AB}$

$$\vec{R}_{AB} = (5 - (-6))\hat{a}_x + (8 - 4)\hat{a}_y + (-2 - 7)\hat{a}_z = 11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z$$

(b).  $|\vec{R}_{AB}| = \sqrt{(11^2) + 4^2 + (-9)^2} = 14.76m$

(c).  $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9}/36\pi) |14.76|^3)$   
 $\Rightarrow \vec{F}_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.16\hat{a}_z mN$

(d).  $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} |14.76|^3)$   
 $\Rightarrow \vec{F}_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.13\hat{a}_z mN$

**D2.2(a).**  $Q_A = -0.3\mu C$  located at A(25,-30,15) in cm ,  $Q_B = 0.5\mu C$  located at B(-10,8,12)

Find  $\vec{E}$  at the origin O(0,0,0).

Let  $\vec{E}$  at the origin is denoted by  $\vec{E}_o$  and it will be the sum of  $\vec{E}_A$  (  $\vec{E}$  due to  $Q_A$  located at point A )  
and  $\vec{E}_B$  (  $\vec{E}$  due to  $Q_B$  located at point B)

$$\vec{E}_A = Q_A \vec{R}_{OA} / 4\pi\epsilon_0 |\vec{R}_{OA}|^3$$

$$\vec{R}_{OA} = (0 - 25)\hat{a}_x + (0 - (-30))\hat{a}_y + (0 - 15)\hat{a}_z = (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)cm$$

$$|\vec{R}_{OA}| = \sqrt{(-25)^2 + (30)^2 + (-15)^2} = 41.83cm$$

$$\vec{E}_A = (-0.3 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$$

$$\vec{E}_B = Q_B \vec{R}_{OB} / 4\pi\epsilon_0 |\vec{R}_{OB}|^3$$

$$\vec{R}_{OB} = (0 - (-10))\hat{a}_x + (0 - 8)\hat{a}_y + (0 - 12)\hat{a}_z = (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)cm$$

$$|\vec{R}_{OB}| = \sqrt{(10)^2 + (-8)^2 + (-12)^2} = 17.55cm$$

$$\vec{E}_B = (0.5 \times 10^{-6}) \times (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^3 = 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)$$

$$\vec{E}_o = \vec{E}_A + \vec{E}_B = (-368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)) + 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) = (92.3\hat{a}_x - 77.6\hat{a}_y - 94.2\hat{a}_z)KV/m$$

(b). Find  $\vec{E}$  at the point P(15,20,50).

It is the same as part(a) but this time we have to calculate  $\vec{R}_{PA}$  and  $\vec{R}_{PB}$  and the rest of the problem is similar to part(a)

**D2.3 (a).**

$$\sum_{m=0}^5 ((1 + (-1)^m) / (m^2 + 1)) = (1 + (-1)^0) / (0^2 + 1) + (1 + (-1)^1) / (1^2 + 1) + (1 + (-1)^2) / (2^2 + 1) + (1 + (-1)^3) / (3^2 + 1) + (1 + (-1)^4) / (4^2 + 1) + (1 + (-1)^5) / (5^2 + 1) = 2 + 0 + 2/5 + 0 + 2/17 + 0 = 2.52$$

(b). Similar to the part(a)

**D2.4 (a).**  $0.1 \leq (|x|, |y|, |z|) \leq 0.2$  . given ranges of x,y and z co-ordinates doesnot constitute a cubical volume so  $dv = 0 \Rightarrow Q = \int_{vol} \rho_v dv = 0$

(b). Differential volume in cylindrical co-ordinates is given by  $dv = \rho d\rho d\phi dz$  . we have  $Q = \int_{vol} \rho_v dv$

$$\Rightarrow Q = \int_{vol} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^{2\pi} \int_0^{0.2} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^2 d\rho \int_0^{2\pi} (\sin(0.6)\phi) d\phi \int_0^{0.2} z^2 dz$$

$$\Rightarrow Q = |\rho^3/4|_0^{0.1} \times |(-\cos(0.6\phi))|_{0.6} / 0.6 |z|_0^{0.2} = | (0.1)^4 / 4 | \times | (-\cos(108^\circ) - (-\cos(0))) / 0.6 | \times | (64 - 8) / 3 |$$

$$\Rightarrow Q = | (0.1)^4 / 4 | \times | (1.31) / 0.6 | \times | 56 / 3 | = 1.018mC$$

<sup>1</sup>This document is prepared in L<sup>A</sup>T<sub>E</sub>X. (Email: ahmadsajjad01@com.net.pk)

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**Mark Steyvers**



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web description new york state regents living environment relationships and biodiversity lab review this contains 197 part d questions on the relationships and biodiversity lab from past exams and their answers

*relationships and biodiversity flashcards quizlet* - May 03 2023

web 2 dna is placed in wells 3 electrical current is ran through gel 4 dna is negative and is attracted to the positive side 5 smallest fragments travel further and banding is compared uses of gel electrophoresis dna relation crime scenes and paternity test which species is most like y to produce currol z

**living environment instructional resources new york state** - Aug 06 2023

web oct 10 2018 using the what you absolutely need to know to pass the nys living environment regents exam powerpoint with the content review lessons can give the students a focus point and a different media from the handouts topic 8 ecology section slides 157 178 is particularly helpful as it defines the terms listed in the content review

*biology ny state lab biodiversity relationships quizlet* - Mar 01 2023

web terms in this set 8 what is botana curus a fictional plant that for the purpose of this lab contains a chemical that can cure cancer why do we want to know if species x y or z is related to botana curus x y or z may also have the chemical that can cure

cancer what are examples of structural evidence from the lab