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

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

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

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)
$\vec{E}_A = Q_A \vec{R}_{OA}/4\pi\epsilon_o \mid \vec{R}_{OA} \mid^3$
$\vec{R}_{OA} = (0 - 25))\hat{a}_x + (0 - (-30))\hat{a}_y + (0 - 15)\hat{a}_z = (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)cm$
$\mid \vec{R}_{OA} \mid = \sqrt{(-25)^2 + (30)^2 + (-15)^2} = 41.83cm$
$\vec{E}_A = (-0.3 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times \mid 41.83 \times 10^{-2} \mid^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$
$\vec{E}_B = Q_B \vec{R}_{OB}/4\pi\epsilon_o \mid \vec{R}_{OB} \mid^3$
$\vec{R}_{OB} = (0 - (-10)))\hat{a}_x + (0 - 8)\hat{a}_y + (0 - 12)\hat{a}_z = (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)cm$
$\mid \vec{R}_{OB} \mid = \sqrt{(10)^2 + (-8)^2 + (-12)^2} = 17.55cm$
$\vec{E}_B = (0.5 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times \mid 17.55 \times 10^{-2} \mid^3 = 8317.36(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$
$\vec{E}_o = \vec{E}_A + \vec{E}_B = (-368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)) + 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) = (92.3\hat{a}_x - 77.6\hat{a}_y - 94.2\hat{a}_z)KV/m$

(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).
$\Sigma_0^5((1 + (-1)^m)/(m^2 + 1)) = (1 + (-1)^0)/(0^2 + 1) + (1 + (-1)^1)/(1^2 + 1) + (1 + (-1)^2)/(2^2 + 1) + (1 + (-1)^3)/(3^2 + 1) + (1 + (-1)^4)/(4^2 + 1) + (1 + (-1)^5)/(5^2 + 1) = 2 + 0 + 2/5 + 0 + 2/17 + 0 = 2.52$

(b). Similar to the part(a)

D2.4 (a). $0.1 \leq (\mid x \mid, \mid y \mid, \mid z \mid) \leq 0.2$, 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 $Q = \int_{vol} \rho_v dv$
$\Rightarrow Q = \int_{vol}(\rho^2 z^2 \sin(0.6)\phi)\rho d\rho d\phi dz = \int_0^{0.1} \int_0^\pi \int_2^4 (\rho^2 z^2 \sin(0.6)\phi)\rho d\rho d\phi dz = \int_0^{0.1} \rho^3 d\rho \int_0^\pi (\sin(0.6)\phi)d\phi \int_2^4 dz$
$\Rightarrow Q = \mid \rho^4/4 \mid_0^{0.1} \times \mid (-\cos(0.6\phi))/0.6 \mid_0^\pi \times \mid z \mid_2^4 = \mid (0.1)^4/4 \mid \times \mid (-\cos(108^0) - (-\cos(0)))/0.6 \mid \times \mid (64 - 8)/3 \mid$
$\Rightarrow Q = \mid (0.1)^4/4 \mid \times \mid (1.31)/0.6 \mid \times \mid 56/3 \mid = 1.018mC$

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23. Name: Date: Hour: _____. Draw Lewis structures for each of the following. 1. NO_3. 1-. 2. CH_4. Skill Practice 26 Skill Practice 26. Name: Date: Hour: _____. 1. What does it mean to say that a bond is polar? One of the atoms ... Skill Practice 16 - Atomic Size Skill Practice 16. Atomic Size. Practice. Name: KEY. Date: Hour: 1. What force of attraction does the second energy level of a phosphorus atom "feel" from the ... Skill Practice 13 Obtain permission for classroom use at www.ChemistryInquiry.com. Skill Practice 13. Name: Date: Hour: _____. 1 ... Sample Guided Inquiry Chemistry Lessons Please evaluate all of the materials for the unit. You will find ChemQuests, Skill Practice assignments, review sheets, video explanations, and labs. To ... Skill Practice 9 Skill Practice 9. Practice Problems. Name: Average Atomic Mass. Date: Period: _____. A certain element exists as ... Skill Practice 14 (ANSWER KEY) Skill Practice 14 (ANSWER KEY). Lewis Practice. Name: Date: Hour: _____. How many valence electrons does each of ... Skill Practice 30-33 answers.doc View Homework Help - Skill Practice 30-33 answers.doc from CHEM 202 at Simon Fraser University. Skill Practice 30 Name: _ Date: _ Hour: _ 1. Hyundai Atos Manuals Hyundai Atos Upload new manual · User's manuals (3) Add · Repair manuals (5) Add ... workshop manual for atos - Hyundai Forum Aug 29, 2006 — I have a hyundai atos (2000) too! Im looking for the workshop manual for it too, I've got the manual for every other models of hyundai, ... Hyundai Atos Service Manual (G4HC engine) Hey people! I'm new around here! Me and my bud are used to rebuild engines and now we wanted to rebuild my mom's 1998 1st gen Hyundai Atos ... Hyundai Atos body service and repair manual Get and view online the Hyundai Atos service and repair manual in english and pdf document. The complete user guide for repair and maintenance the Hyundai ... User manual Hyundai Atos (2002) (English - 249 pages) Under the hood, the 2002 Atos is equipped with a 1.0-liter gasoline engine, which delivers adequate power for everyday driving. It is paired with a manual ... User manual Hyundai Atos (2003) (English - 127 pages) Manual. View the manual for the Hyundai Atos (2003) here, for free. This manual comes under the category cars and has been rated by 28 people with an ... Atos Prime Workshop/ Repair Manual Jan 23, 2005 — Hi everyone, I would like to obtain a workshop / repair manual for the Hyundai Atos Prime (English Version). Repair manuals and video tutorials on HYUNDAI ATOS Step-by-step DIY HYUNDAI ATOS repair and maintenance · Amica (MX) 2019 workshop manual online. How to change fuel filter on a car – replacement tutorial · Atos ... I just bought a Hyundai Atos 1.0 Manual. Engine G4HC. ... Aug 28, 2011 — But My car is Manual Transmission. The problem is when i depress the Clutch for gear change, the engine start to rev. the current mileage is ... Hyundai Atos engine 1.1 workshop manual Jul 1, 2021 — Hello friends in attachment there is workshop manual for Hyundai Atos MY 2005. There are: general information engine mechanical Revised 8 06 Grade 5 Narrative Rubric Student Writing Pdf Christine Schwab 2015-01-05 Evidence-Based Writing for grade 4 offers 64 pages of writing practice and prompts. The book is aligned with the Common. Revised 8 06 Grade 5 Narrative Rubric Student Writing Pdf Revised 8 06 Grade 5 Narrative Rubric Student Writing Pdf For Free - digitaltutorials ... Revised 8 06 Grade 5 Narrative Rubric Student Writing Pdf For Free -. Rubric for Narrative Writing—Fifth Grade Scores in the categories of Elaboration and Craft are worth

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