Physics 2135 Final Exam

May 15, 2015

Exam Total

200 / 200

Printed Name: Key

Rec. Sec. Letter: N/A

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

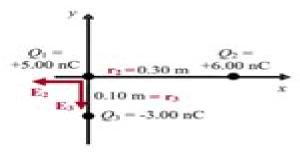
(a) (30 points) Using the coordinate system given, calculate the electric field at the origin produced by Q₂, the 6.00 nC charge, and Q₃, the -3.00 nC charge. Express your answer in unit vector notation.

$$\vec{E} = \vec{E}_{2} + \vec{E}_{3}$$

$$= -\frac{k! \alpha_{3}!}{r_{2}^{2}} \hat{\lambda} - \frac{k! \alpha_{3}!}{r_{3}^{2}} \hat{\lambda}$$

$$= -\frac{(9 \times 10^{9})(6 \times 10^{4})}{0.3^{2}} \hat{\lambda} - \frac{(9 \times 10^{9})(3 \times 10^{-9})}{0.1^{2}} \hat{\lambda}$$

$$= \sqrt{-600 \frac{M}{C} \hat{\lambda}} - 2700 \frac{M}{C} \hat{\lambda}$$



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

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United States. Congress. House.
Committee on Science and
Astronautics

Physics Final Exam Answers:

Devil at my Doorstep Randy Faulk, 2010-02-20 Born 60 miles southeast of San Antonio after World War II Randall D Randy Faulk is one of the many Baby Boomers born to returning Servicemen Having been in and out of Children's Shelters Foster Homes and Children's Homes he knows firsthand what it means to be alone The oldest of six children Randy spent 35 years trying to find his two younger brothers and three younger sisters who were adopted out of his family He describes his anger and frustration as he encounters one barrier after another but finally does what the Bureaucrats in the State of Texas <u>Classroom Lessons</u> Kate McGilly,1994 A timely complement to John Bruer's Schools for Thought said could not be done Classroom Lessons documents eight projects that apply cognitive research to improve classroom practice The chapter authors are all principal investigators in an influential research initiative on cognitive science and education Classroom Lessons describes their collaborations with classroom teachers aimed at improving teaching and learning for students in grades K 12 The eight projects cover writing mathematics history social science and physics Together they illustrate that principles emerging from cognitive science form the basis of a science of instruction that can be applied across the curriculum The book is divided into three sections applications of cognitive research to teaching specific content areas applications for learning across the curriculum and applications that challenge traditional concepts of classroom based learning environments Chapters consider explicit models of knowledge with corresponding instruction designed to enable learners to build on that knowledge acquisition of specified knowledge and what knowledge is useful in contemporary curricula Contributors Kate McGilly Sharon A Griffin Robbie Case and Robert S Siegler Earl Hunt and Jim Minstrell Kathryn T Spoehr Howard Gardner Mara Krechevsky Robert J Sternberg and Lynn Okagaki Irene W Gaskins The Cognition and Technology Group at Vanderbilt Marlene Scardamalia Carl Bereiter and Mary Lamon Ann L Brown and Joseph C Campione John T Bruer A Bradford Book Revise GCSE Business Studies (2010 Exams Only) David Floyd, 2005 New editions of the bestselling Revise GCSE Study Guides with a fresh new look and updated content in line with curriculum changes Revise GCSE contains everything students need to achieve the GCSE grade they want Each title has been written by a GCSE examiner to help boost students learning and focus their revision Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying Revise GCSE is an ideal course companion throughout a student s GCSE study and acts as the ultimate Study Guide throughout their revision <u>Instructor's Manual to Accompany Conceptual Physics</u> Paul G. Hewitt, 1977 **Biology** Senior Lecturer in African History John Parker, 2008-07 The Revise AS study guides are written by examiners and contain in depth course coverage of the key information plus hints tips and guidance End of unit sample questions and model answers provide essential practice to improve students exam technique Creating the High Schools of Our Choice Tim Westerberg, 2013-09-13 This book provides strategies tools and examples to help high school principals achieve the goals put forward in the No Child Left

Behind legislation With its clear examples of best practices in leadership personalization and strategic use of data it will show you how to achieve your school s academic mission Funny Exam Answers Phoenix Ravenclaw, AI, 2025-02-12 Funny Exam Answers offers a humorous vet insightful look into the pressures of education through the lens of actual unintentionally funny test responses It explores the phenomenon of students blanking out during exams leading to creative attempts to answer questions they don't know The book isn't just a collection of laughs it examines the underlying anxieties and the surprising ways students express themselves under academic pressure. One intriguing aspect highlighted is how students sometimes interpret questions literally resulting in unexpected and amusing answers This unique textbook categorizes funny exam answers based on style and content such as literal interpretations and humorous attempts offering commentary on the motivations behind them It begins by establishing the context of these answers and progresses through various categories ultimately reflecting on the implications for teaching and learning By focusing on humor Funny Exam Answers provides an accessible and engaging way to explore serious topics like test anxiety and assessment methods making it valuable for educators and students alike AQA Psychology Cara Flanagan, 2008-07 The Revise AS study guides are written by examiners and contain in depth course coverage of the key information plus hints tips and guidance End of unit sample questions and model answers provide essential practice to improve students exam technique Bennett G. Edwards, 2012-10-31 Have you ever been bullied molested or told You don't have the sense you were born with You are going out of the world backward You are a knucklehead You are mentally slow You are too small to play a game You are not strong enough You are a guitter You will never fi nish anything People like you should not go to college You are stupid You were meant to be a laborer You are ugly or YOU WILL NEVER AMOUNT TO A HILL OF BEANS This autobiography of my life story is for all of the people who have been put down or discouraged by family friends classmates or society at large I hope that it will help you to not give up on your hopes and dreams May it strengthen your faith in God Revise Gcse Religious Studies Catherine Lane, 2005 New editions of the bestselling Revise vourself and vour fellowmen GCSE Study Guides with a fresh new look and updated content in line with curriculum changes Revise GCSE contains everything students need to achieve the GCSE grade they want Each title has been written by a GCSE examiner to help boost students learning and focus their revision Each title provides complete curriculum coverage with clearly marked exam board labels so students can easily adapt the content to fit the course they are studying Revise GCSE is an ideal course companion throughout a student s GCSE study and acts as the ultimate Study Guide throughout their revision **Body of Knowledge** Steven Giegerich, 2001-09-09 A fascinating exploration of the medical student's most decisive course gross anatomy and of the intellectual emotional and spiritual transformation that turns young men and women into doctors Medical Gross and Developmental Anatomy is a course every medical student dreads As one future physician told the author Steve Giegerich passing the notoriously difficult course is paying your dues for medicine It s the bridge you have to cross if you want to

become a doctor More students leave medical school during this course than any other Now Body of Knowledge puts readers in the classroom as potential doctors come face to face with their first human cadaver and dissects the factors that determine whether they succeed or fail In January 1999 181 students at the University of Medicine and Dentistry Newark began a course in gross anatomy Among them were Sherry Ikalowych a former nurse and mother of four Jennifer Hannum an ultracompetitive jock Udele Tagoe a determined Duke graduate of Ghanian descent and Ivan Gonzalez a Nicaraguan refugee and unlikely medical student For these four lab partners Tom Lewis the cadaver lying on the stainless steel table remains anonymous during dissection but for the reader Lewis springs to life As the students grapple with love hate power and awe Giegerich explores Lewis s life and his generous decision to donate his body to science Ultimately as the students gain reverence for medicine they too develop gratitude for Lewis s thoughtful gift Mathematics Peter Sherran, 2004 Revise AS Maths gives complete study support throughout the year This Study Guide matches the curriculum content and provides in depth course coverage plus invaluable advice on how to get the best results in the AS exam Geography AQA John Hancock, 2006 Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and as a revision guide Marketing Strategy from the Masters (Collection) Philip Kotler, Nancy Lee, Paul W. Farris, Neil Bendle, Phillip Pfeifer, David Reibstein, Larry Light, Joan Kiddon, Monique Reece, 2010-10-19 Breakthrough marketing revitalize brands optimize investments link marketing to performance even apply winning marketing strategies in the public sector Three full books of proven marketing strategy principles and actionable solutions Discover how to revitalize any brand and drive it to unprecedented success apply the right metrics to all your marketing investments get accurate answers and use them to systematically improve ROI tightly link marketing with business performance bring powerful marketing strategies to the public sector and much more From world renowned leaders and experts including Philip Kotler Nancy R Lee Paul W Farris Neil T Bendle Phillip E Pfeifer David I Reibstein Larry Light and Joan Kiddon Key Marketing Metrics Neil Bendle, Paul W. Farris, Phillip Pfeifer, David Reibstein, 2021-02-12 Measure manage and get the most out of your marketing Key Marketing Metrics is the definitive guide to today s most valuable marketing metrics In this thoroughly updated and significantly expanded book you will understand the pros the cons and the nuances of more than 50 of the most important metrics and know exactly how to choose the right one for every challenge With leading experts discover how to build your reputation by Using marketing dashboards to view market dynamics from multiple perspectives maximize accuracy and triangulate to optimal solutions Applying high value metrics for virtually every facet of marketing to maximise the return on your investment and identify the best new opportunities for profit Building models to assist with planning to give you the best tools for decision making In its third edition this award winning book now includes the latest web online social and email metrics plus new insights into measuring marketing ROI and brand equity The Anaesthesia Science Viva Book Simon Bricker, 2004-06-17 The definitive guide to

this part of the FRCA exam Proceedings of the 6th International Conference on Current Issues in Education (ICCIE) 2023 Paramita Cahyaningrum Kuswandi, Ezi Apino, Syahri Ramadhan, Ririn Susetyaningsih, Siwi Widiastuti, 2024-05-18 This is an open access book In this Industrial Era 4 0 society encounters significant environmental economic and social challenges Thus educational institutions need to ensure that all students are well prepared for the future and that they can act as agents of change As a result educational institution must expand their educational system extensively to address these challenges including reshaping teaching and learning notions and platforms that immensely focus on not only developing a broad set of academic staff and student s knowledge skills attitudes and values but also upholding the fast growing technology Building strong learning connections should be perceived as the highest priority in educational institutions. The connection paves the way for critical thinking and it is a fundamental concept that connects both context and relevance In this digital information age technology has enormous potential to assist this whole process of connection The 5thInternational Conference of Current Issues in Education ICCIE 2023 provides platforms for researchers and practitioners to share their ideas and experiences concerning these issues The conference also brings an excellent opportunity to connect with global participants and enhance further collaborations Confrontations Don Williamson, 2020-05-15 Book Delisted *Hearings* United States. Congress. House. Committee on Science and Astronautics, 1959

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