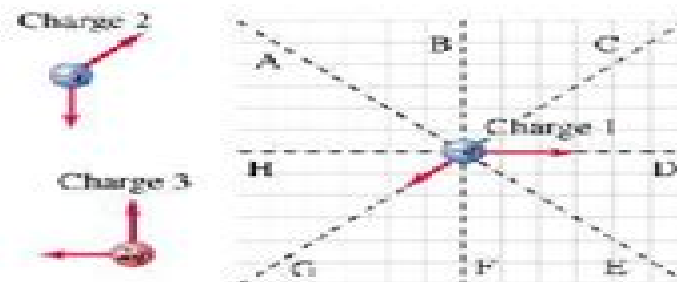


[Assignment View 1](#)**PH2200 University Physics II Electricity & Magnetism****Homework 1 - Chapter 26 (22 points)****Due at 11:00pm on Thursday, January 22, 2009**[View Grading Details](#)**Placing Charges Conceptual Question**

Below are free-body diagrams for three electric charges that lie in the same plane. Their relative positions are unknown.

Part A

Along which of the lines (A to H) in the figure should charge 2 be placed so that the free-body diagrams of charge 1 and charge 2 are consistent?

**Hint A.1 How to approach the problem**

Newton's 3rd law states that the forces exerted by a pair of objects on each other are always equal in magnitude and opposite in direction. Identifying the forces that correspond to 3rd-law pairs in the free-body diagrams will enable you to place the particles in their proper relative position.

Hint A.2 Placing Charge 2

The two forces acting on charge 2 correspond to the forces exerted on it by charge 1 and charge 3. This means that one of these forces must pair with a force on charge 1 of equal magnitude and opposite direction and the other must pair with a force on charge 3 of equal magnitude and opposite direction. Also note that charge 2 should be repelled by charge 1, since both are negative. Therefore, the vector that represents the force of charge 1 on charge 2 must point away from charge 1. This information is all you need to place charge 2 in its correct position.

ANSWER:

C

Part B

Along which of the lines (A to H) in the figure should charge 3 be placed so that the free-body diagrams of charge 1, charge 2, and charge 3 are consistent?



Pearson Mastering Physics Solutions Manual

**Priscilla W. Laws, David P.
Jackson, Brett J. Pearson**



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University Physics: Australian edition Hugh D Young, Roger A Freedman, Ragbir Bhathal, 2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education When the first edition of University Physics by Francis W Sears and Mark W Zemansky was published in 1949 it was revolutionary among calculus based physics textbooks in its emphasis on the fundamental principles of physics and how to apply them The success of University Physics with generations of several million students and educators around the world is a testament to the merits of this approach and to the many innovations it has introduced subsequently In preparing this First Australian SI edition our aim was to create a text that is the future of Physics Education in Australia We have further enhanced and developed University Physics to assimilate the best ideas from education research with enhanced problem solving instruction pioneering visual and conceptual pedagogy the first systematically enhanced problems and the most pedagogically proven and widely used online homework and tutorial system in the world Mastering Physics *Students Solutions Manual a la Carte for College Physics* Eugenia Etkina, Gorazd Planinsic, Alan Van Heuvelen, 2018-04-27 **Student Study Guide & Selected Solutions Manual** David D. Reid, 2007 **Essential University Physics** Richard Wolfson, 2007 Richard Wolfson s Essential University Physics is a concise and progressive calculus based physics textbook that offers clear writing great problems and interesting real life applications At nearly half the length and half the price of other physics texts on the market Essential University Physics is a compelling alternative for professors who want to focus on the fundamentals Doing Physics 1 Mechanics Motion in a Straight Line Motion in Two and Three Dimensions Force and Motion Using Newton s Laws Work Energy and Power Conservation of Energy Gravity Systems of Particles Rotational Motion Rotational Vectors and Angular Momentum Static Equilibrium Part 2 Oscillations Waves and Fluids Oscillatory Motion Wave Motion Fluid Motion Thermodynamics Temperature and Heat The Thermal Behavior of Matter Heat Work and the First Law of Thermodynamics The Second Law of Thermodynamics For all readers interested in calculus based physics Física - V1 Randall D. Knight, 2000 Primeiro livro de física concebido a partir de uma pesquisa que buscou a melhor forma de ensinar e aprender física de forma moderna e efetiva Divido em quatro volumes o Volume 1 apresenta Mecânica Newtoniana gravitação oscilações e ondas utilizando uma linguagem clara e eficaz assimila o pelos alunos Diversos tipos de atividades de aprendizagem como questões do tipo Pare e Pense Boxes Típicos Resumos dos Capítulos Questões Conceituais Exercícios e Problemas etc reforçam os conceitos apresentados em cada capítulo Contém um CD ROM com exercícios interativos e animações **Physics for Scientists & Engineers with Modern Physics** Douglas C. Giancoli, 2008 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains Giancoli s reputation for creating carefully crafted highly accurate and precise physics texts Physics for Scientists and Engineers combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics The new edition also features an unrivaled

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The Well-Trained Mind Susan Wise Bauer, Jessie Wise, 2016-08-09 Is your child getting lost in the system becoming bored losing his or her natural eagerness to learn If so it may be time to take charge of your child's education by doing it yourself The Well Trained Mind will instruct you step by step on how to give your child an academically rigorous comprehensive education from preschool through high school one that will train him or her to read to think to understand to be well rounded and curious about learning Veteran home educators Susan Wise Bauer and Jessie Wise outline the classical pattern of education called the trivium which organizes learning around the maturing capacity of the child's mind and comprises three stages the elementary school grammar stage when the building blocks of information are absorbed through memorization and rules the middle school logic stage in which the student begins to think more analytically and the high school rhetoric stage where the student learns to write and speak with force and originality Using this theory as your model you'll be able to instruct your child whether full time or as a supplement to classroom education in all levels of reading writing history geography mathematics science foreign languages rhetoric logic art and music regardless of your own aptitude in those subjects Thousands of parents and teachers have already used the detailed book lists and methods described in The Well Trained Mind to create a truly superior education for the children in their care This extensively revised fourth edition contains completely updated curricula and book lists links to an entirely new set of online resources new material on teaching children with learning challenges cutting edge math and sciences recommendations answers to common questions about home education and advice on practical matters such as standardized testing working with your local school board designing a high school program preparing transcripts and applying to colleges You do have control over what and how your child learns The Well Trained Mind will give you the tools you'll need to teach your child with confidence and success

The Spectator, 1888 **Student Solutions Manual, Sears & Zemansky's University Physics** Albert Lewis Ford, Wayne Anderson (Physicist), 2012 *Books in Print*, 1987 **The Journal of Education**, 1899

Workshop Physics Activity Guide Module 4 Priscilla W. Laws, David P. Jackson, Brett J. Pearson, 2024-08-13 The Workshop Physics Activity Guide is a set of student workbooks designed to serve as the foundation for a two semester calculus based introductory physics course It consists of four Modules with a total of 28 units that interweave text materials with activities that include prediction qualitative observation explanation equation derivation mathematical modeling quantitative experiments and problem solving The modules help students understand the basis of knowledge in physics as interplay

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