

2. Coulomb's law allows us to find the force between two point charges.

Three point charges are held fixed in place as shown.



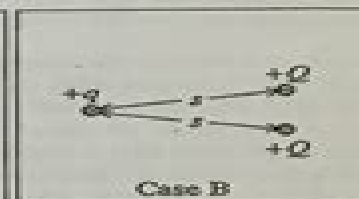
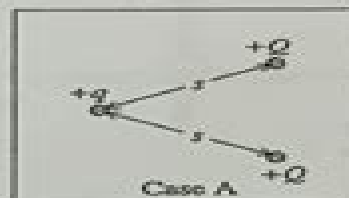
Consider the following comment about this situation:

"There will be zero net electric force on the charge in the middle due to the other charges. Using Coulomb's law, the force due to the +Q charge is positive, and the force due to the -Q charge is negative. The forces cancel."

- a. Do you agree with this statement? Explain.
 - b. How does Coulomb's law apply to situations in which there are more than two point charges?
3. Each of the following parts involves a comparison of the net electric force exerted on a positive charge $+q$ in two different cases.

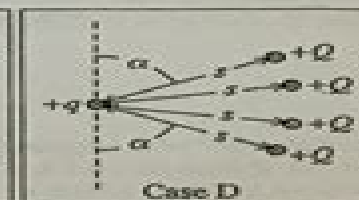
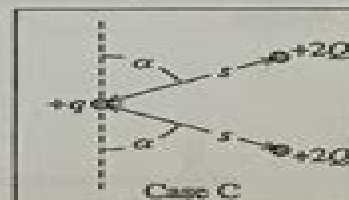
- a. In cases A and B shown at right there are two positive point charges $+Q$ each a distance s away from a third positive point charge $+q$.

Is the net electric force on the $+q$ charge in case A *greater than*, *less than*, or *equal to* the net electric force on the $+q$ charge in case B? Explain.



- b. In case C, two positive point charges $+2Q$ are each a distance s away from a third positive point charge $+q$. In case D, four positive point charges $+Q$ are each a distance s away from a fifth positive point charge $+q$. (The angle α shown is the same in both cases.)

Is the net electric force on the $+q$ charge in case C *greater than*, *less than*, or *equal to* the net electric force on the $+q$ charge in case D? Explain.



Tutorials In Introductory Physics Homework Answer Key

**Lillian C. McDermott, Peter S.
Shaffer, University of Washington.
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and under naturalistic conditions Interestingly the teams conducting these studies are already exemplars of partnerships between researchers and practitioners who are uniquely positioned as in between straddling the two worlds As a result these publications represent both the rigours of research and the pragmatism of reflective practice In forthcoming editions we will add to this collection a third type of publication design profiles These will present practitioner developed pedagogical designs at varying levels of abstraction to be held to scrutiny amongst practitioners instructional designers and researchers alike We hope by bringing these types of studies together in an open access format that we may contribute to the development of new forms of practitioner researcher interactions that promote co design in pedagogical innovation

Teaching Undergraduate Science Linda C. Hodges, 2023-07-03 This book is written for all science or engineering faculty who have ever found themselves baffled and frustrated by their undergraduate students lack of engagement and learning The author an experienced scientist faculty member and educational consultant addresses these issues with the knowledge of faculty interests constraints and day to day concerns in mind Drawing from the research on learning she offers faculty new ways to think about the struggles their science students face She then provides a range of evidence based teaching strategies that can make the time faculty spend in the classroom more productive and satisfying Linda Hodges reviews the various learning problems endemic to teaching science explains why they are so common and persistent and presents a digest of key ideas and strategies to address them based on the research she has undertaken into the literature on the cognitive sciences and education Recognizing that faculty have different views about teaching different comfort levels with alternative teaching approaches and are often pressed for time Linda Hodges takes these constraints into account by first offering a framework for thinking purposefully about course design and teaching choices and then providing a range of strategies to address very specific teaching barriers whether it be students motivation engagement in class ability to problem solve their reading comprehension or laboratory research or writing skills Except for the first and last chapters the other chapters in this book stand on their own i e can be read in any order and address a specific challenge students have in learning and doing science Each chapter summarizes the research explaining why students struggle and concludes by offering several teaching options categorized by how easy or difficult they are to implement Some for example can work in a large lecture class without a great expenditure of time others may require more preparation and a more adventurous approach to teaching Each strategy is accompanied by a table categorizing its likely impact how much time it will take in class or out and how difficult it will be to implement Like scientific research teaching works best when faculty start with a goal in mind plan an approach building on the literature use well tested methodologies and analyze results for future trials Linda Hodges message is that with such intentional thought and a bit of effort faculty can succeed in helping many more students gain exciting new skills and abilities whether those students are potential scientists or physicians or entrepreneurs Her book serves as a mini compendium of current research as well as a protocol manual a readily accessible guide to the

literature the best practices known to date and a framework for thinking about teaching

Conference on the Introductory Physics Course Robert Resnick, 1997 This collection of papers from educators around the world explores the state of the art in teaching physics Marking the retirement of Robert Resnick from RPI a conference was held on teaching physics This book contains the complete papers from a conference marking the retirement of Robert Resnick from RPI and offers a grand tour of the field

Fundamentals of Physics David Halliday, Robert Resnick, Jearl Walker, 2010-03-15 This book arms engineers with the tools to apply key physics concepts in the field A number of the key figures in the new edition are revised to provide a more inviting and informative treatment The figures are broken into component parts with supporting commentary so that they can more readily see the key ideas Material from The Flying Circus is incorporated into the chapter opener puzzlers sample problems examples and end of chapter problems to make the subject more engaging Checkpoints enable them to check their understanding of a question with some reasoning based on the narrative or sample problem they just read Sample Problems also demonstrate how engineers can solve problems with reasoned solutions

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knowledge learning in physics courses at all levels teacher education and cross disciplinary learning This up to date text will be essential reading for anyone in physics education research The School World ,1905 *Teaching Introductory Physics* American Association of Physics Teachers. Committee on Physics in Pre-College Education,1974 Matter and Interactions, Volume 2 Ruth W. Chabay,Bruce A. Sherwood,Aaron P. Titus,Stephen J. Spicklemire,2025-04-11 Matter and Interactions Volume 2 Electric and Magnetic Interactions 5th Edition Matter Interactions is a calculus based introductory physics text that reflects a modernized view of physics It stresses reasoning from powerful physics principles and integrates contemporary insights such as the atomic nature of matter quantized energy and relativistic dynamics throughout the curriculum Students engage in the full process of creating and refining physical models Computational modeling is integrated to allow students to apply fundamental principles to more complex realistic systems and to explore the possible ranges of behavior of physical models Joining Ruth Chabay and Bruce Sherwood for this edition as authors are longtime collaborators Aaron Titus North Carolina State University and Stephen Spicklemire University of Indianapolis who have made great impacts on the new video series interactive figures and simulations The new edition is thoughtfully updated with extensive content revisions including chapter and section level learning objectives clarified and simplified initial presentation of key concepts and techniques and the introduction of angular momentum earlier before collisions **Physics Education Research** Michael Eric Burnside,2002

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