

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

Three point charges are held fixed in place as shown.



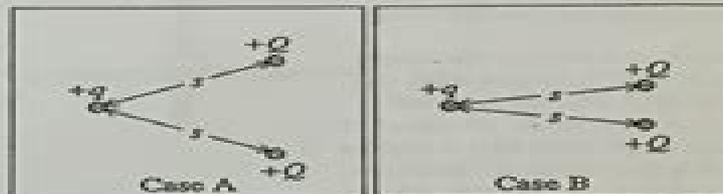
Consider the following comment about this situation:

"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.

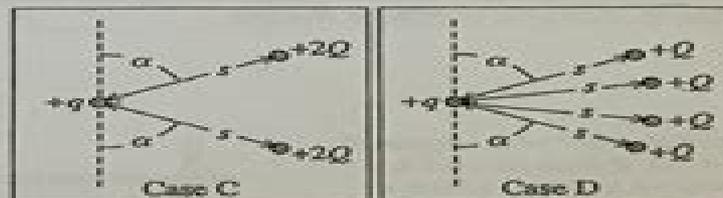
- a. In cases A and B shown at right there are two positive point charges  $+Q$  each a distance  $s$  away from a third positive point charge  $+q$ .

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  $\alpha$  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 Answer Key

**Gordon Wells, Anne Edwards**



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**2005 Physics Education Research Conference** Paula Heron, Laura McCullough, Jeffrey Marx, 2006-03-08 The papers included in these proceedings have been peer reviewed The 2005 Physics Education Research Conference covered a broad spectrum of current research directions including student learning of specific topics student attitudes and the effectiveness of various teaching methods The emphasis was on undergraduate instruction The theme of this conference was Connecting Physics Education Research Teacher Education at All Levels K 20

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**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 INCLUDES PARTS 1 4 PART 5 IN FUNDAMENTALS OF PHYSICS EXTENDED Tutorials in Introductory Physics: Homework University of Washington. Physics Education Group,2012 Active Learning: Theoretical Perspectives, Empirical Studies and Design Profiles Robert Cassidy,Elizabeth S. Charles,James D. Slotta,Nathaniel Lasry,2019-07-11 This book represents the emerging efforts of a growing international network of researchers and practitioners to promote the development and uptake of evidence based pedagogies in higher education at something a level approaching large scale impact By offering a communication venue that attracts and enhances much needed partnerships among practitioners and researchers in pedagogical innovation we aim to change the conversation and focus on how we work and learn together i e extending the implementation and knowledge of co design methods In this first edition of our Research Topic on Active Learning we highlight two of the three types of publications we wish to promote First are studies aimed at understanding the pedagogical designs developed by practitioners in their own practices by bringing to bear the theoretical lenses developed and tested in the education research community These types of studies constitute the practice pull that we see as a necessary counterbalance to knowledge push in a more productive pedagogical innovation ecosystem based on research practitioner partnerships Second are studies empirically examining the implementations of evidence based designs in naturalistic settings 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 **Tutorials in Introductory Physics: Homework** Lillian C. McDermott,Peter S. Shaffer,University of Washington. Physics Education Group,2010 **American Journal of Physics** ,2002 *Teaching Large Classes in Higher Education* Graham Gibbs,Alan Jenkins,2014-03-18 This guide combines theory on teaching methodology with advice on good teaching practice in order to help teachers face the challenge of larger numbers of students in their classrooms It includes a number of case studies which explore innovative teaching methods 2008 Physics Education Research Conference Charles Henderson,Mel Sabella,Leon Hsu,2008-11-21 The 2008 Physics Education Research Conference brought together researchers studying a wide variety of topics in physics education The conference theme was Physics Education Research with Diverse Student Populations

Researchers specializing in diversity issues were invited to help establish a dialog and spur discussion about how the results from this work can inform the physics education research community The organizers encouraged physics education researchers who are using research based instructional materials with non traditional students at either the pre college level or the college level to share their experiences as instructors and researchers in these classes *2003 Physics Education Research Conference* Jeffrey Marx, Scott Franklin, Karen Cummings, 2004-09-09 Papers from an August 2003 conference report on the latest research in physics education Some specific topics covered include empirical investigations of student understanding the myth of gender neutrality using mapped samples to look for sex differences and students representational coherence of Newton s first and second laws Other topics ar **Physics Education Research** Michael Eric Burnside, 2002

*Physics* James S. Walker, 2007 This text for courses in introductory algebra based physics features a combination of pedagogical tools exercises worked examples active examples and conceptual checkpoints **2006 Physics Education Research Conference** Laura McCullough, Paula Heron, Leon Hsu, 2007-03-05 Syracuse New York 26 27 July 2006

**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

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