

# Mcdermott Tutorials Introductory Physics

## Homework Solutions

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review performing arts review chapter 4 mathematics review description of the clep general cbt in college mathematics arithmetic review algebra review geometry and trigonometry review sets and logic review real and complex numbers review functions review probability and statistics review chapter 5 natural sciences review description of the clep general cbt in natural sciences biology review chemistry review physics review earth science review geology review astronomy meteorology chapter 6 social sciences and history review description of the clep general cbt in social sciences and history political science review sociology review economics review psychology review geography review anthropology review western civilization and world history review united states history review periodic table of the elements excerpt about research education association research education association rea is an organization of educators scientists and engineers specializing in various academic fields founded in 1959 with the purpose of disseminating the most recently developed scientific information to groups in industry government high schools and universities rea has since become a successful and highly respected publisher of study aids test preps handbooks and reference works rea s test preparation series includes study guides for all academic levels in almost all disciplines research education association publishes test preps for students who have not yet completed high school as well as high school students preparing to enter college students from countries around the world seeking to attend college in the united states will find the assistance they need in rea s publications for college students seeking advanced degrees rea publishes test preps for many major graduate school admission examinations in a wide variety of disciplines including engineering law and medicine students at every level in every field with every ambition can find what they are looking for among rea s publications while most test preparation books present practice tests that bear little resemblance to the actual exams rea s series presents tests that accurately depict the official exams in both degree of difficulty and types of questions rea s practice tests are always based upon the most recently administered exams and include every type of question that can be expected on the actual exams rea s publications and educational materials are highly regarded and continually receive an unprecedented amount of praise from professionals instructors librarians parents and students our authors are as diverse as the fields represented in the books we publish they are well known in their respective disciplines and serve on the faculties of prestigious high schools colleges and universities throughout the united states and canada chapter 1 passing the clep general cbts about this book this book part of rea s two volume set for the most thorough preparation for the clep general examinations available provides you with an accurate and complete review for the five clep general computer based tests or cbts inside you will find reviews all based on the official clep exams

for each of the following subjects english composition with and without essay humanities mathematics natural sciences and social sciences and history you will also find drill questions that will help you prepare for the actual exam for each drill we provide an answer key with detailed explanations designed to help you better grasp and retain the test material this volume contains extensive topical reviews and drills prepared expressly to help you get ready for the clep general cbts full length practice tests paralleling the actual exams are presented in our companion volume rea s the best test preparation for the clep general exams about the clep general cbts who takes the clep general cbts and what are they used for clep examinations are usually taken by people who have acquired knowledge outside the classroom and wish to bypass certain college courses and earn college credit the college level examination program is designed to reward students for learning no matter where or how that knowledge was acquired more than 2 900 colleges grant credit and or advanced standing for clep exams this makes clep the most widely accepted credit by examination program in the country although most clep examinees are adults returning to college many graduating high school seniors enrolled college students and international students also take the exams to earn college credit or to demonstrate their ability to perform at the college level there are no prerequisites such as age or educational status for taking clep examinations however you must meet specific requirements of the particular institution from which you wish to receive clep credit most clep examinations include material usually covered in an undergraduate course with a similar title to that of the exam e g history of the united states i however the five exams covered in this book do not deal with subject matter covered in any particular course but rather with material taken as general requirements during the first two years of college these general exams are english composition with or without essay humanities college mathematics natural sciences and social sciences and history who administers the exams the clep is developed by the college board administered by educational testing service ets and involves the assistance of educators throughout the country the test development process is designed and implemented to ensure that the content and difficulty level of the test are appropriate when and where are the exams given the clep general examinations are offered year round at some 1 400 test centers in the united states and abroad to find the test center nearest you and to register for the exam you should obtain a copy of the free booklets clep colleges and clep information for candidates and registration form which are available at most colleges where clep credit is granted or by contacting clep services p o box 6600 princeton nj 08541 6600 phone 609 771 7865 website collegeboard com how to use this book what do i study first read over this introduction and our suggestions for test taking take the first practice test in your subject to determine your

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sufficiency of detail levels of specificity audience and purpose effect of style tone language or argument logic of argument inductive deductive reasoning coherence within and between paragraphs rhetorical emphasis effect sustaining tense or point of view sentence joining sentence variety types of questions associated with these skills revising work in progress candidate identifies ways to improve an early draft of an essay analyzing writing candidate answers questions about two prose passages written in distinctly different styles and about the strategies used by the author of each passage multiple choice with essay version two sections section i multiple choice 50 skills at the sentence level 30 see explanation for all multiple choice version skills in context 20 see explanation for all multiple choice version section ii essay 50 candidate presents a point of view in response to a topic and supports it with a logical argument and appropriate evidence the humanities cbt features 140 multiple choice questions each with five answer choices to be answered in 90 minutes the approximate breakdown of topics is as follows literature 50 10 drama 10 15 poetry 15 20 fiction 10 nonfiction including philosophy fine arts 50 20 visual arts painting sculpture etc 15 music 10 performing arts film dance etc 5 architecture the college mathematics cbt features 60 questions to be answered in 90 minutes most are multiple choice with four possible answer choices but some will require you to enter a numerical answer in the box provided the approximate breakdown of topics is as follows 10 sets covering subjects such as these union and intersection subsets venn diagrams cartesian product 10 logic covering subjects such as these truth tables conjunctions disjunctions implications and negations conditional statements necessary and sufficient conditions converse inverse and contrapositive hypotheses conclusions and counterexamples 20 real number systems covering subjects such as these prime and composite numbers odd and even numbers factors and divisibility rational and irrational numbers absolute value and order binary number system 20 functions and their graphs covering subjects such as these domain and range linear polynomial and composite functions 25 probability and statistics covering subjects such as these counting problems including permutations and combinations computation of probabilities of simple and compound events simple conditional probability mean and median 15 additional algebra and geometry topics covering subjects such as these complex numbers logarithms and exponents applications from algebra and geometry particularly on perimeter and area of plane figures properties of triangles and circles the pythagorean theorem parallel and perpendicular lines types of questions on the clep college mathematics examination solving routine straightforward problems 50 solving nonroutine problems requiring an understanding of concepts and the application of skills and concepts 50 the natural sciences cbt features 120 multiple choice questions each with five answer choices to be answered in 90 minutes the

approximate breakdown of topics is as follows biological science 50 10 origin and evolution of life classification of organisms 10 cell organization cell division chemical nature of the gene bioenergetics biosynthesis 20 structure function and development in organisms patterns of heredity 10 concepts of population biology with emphasis on ecology physical science 50 7 atomic and nuclear structure and properties elementary particles nuclear reactions 10 chemical elements compounds and reactions molecular structure and bonding 12 heat thermodynamics and states of matter classical mechanics relativity 4 electricity and magnetism waves light and sound 7 the universe galaxies stars the solar system 10 the earth atmosphere hydrosphere structure features geologic processes and history the social sciences and history cbt features 120 multiple choice questions each with five answer choices to be answered in 90 minutes the approximate breakdown of topics is as follows history 40 17 united states history requiring an overall grasp of historical issues from the colonial period to the present 15 western civilization covering ancient western asia greece and rome medieval europe and modern europe including its expansion and outposts around the world 8 world history covering africa asia australia europe north america and south america from prehistory to the present social sciences 60 13 government political science including subjects such as these methods u s institutions voting and political behavior international relations and comparative government 11 sociology including subjects such as these methods demography family social stratification deviance social organization social theory interaction and social change 10 economics emphasizing subjects such as these scarcity choice and cost resource markets after product markets monetary and fiscal policy international trade and economic measurements 10 psychology including subjects such as these methods aggression conformity group process performance personality and socialization 10 geography including subjects such as these weather and climate regional geography location distance space accessibility spatial interaction and ecology 6 anthropology including subjects such as these ethnography and cultural anthropology about our reviews there are five reviews in this book one for each of the clep general examinations the reviews are designed to further students understanding of the test material each review contains a description of what to expect on the examination and a thorough review of the major topics found on the exams the english composition review is broken down into two areas english language skills and writing skills the humanities review is broken down into five areas literature visual arts and architecture philosophy music and performing arts the mathematics review is broken down into seven areas arithmetic algebra geometry and trigonometry sets and logic real and complex numbers functions and probability and statistics the natural sciences review is broken down into seven areas biology chemistry physics earth science geology astronomy and

meteorology the social sciences review is broken down into eight areas political science sociology economics psychology geography anthropology western and world civilization and united states history scoring the clep general cbts the clep general examinations are scored on a scale of 200 to 800 this does not apply however to the english composition with essay questions exam the essays on this exam are scored on a scale of 2 to 8 there is a drill question in the writing skills section of the english composition review that asks you to write an essay on a given topic to score your essay we suggest you give it to two english teachers or professors to grade refer to the completed essays in the detailes explanations of answers section of the review for scoring criteria the completed essays will show you what the judges will be looking for and the essay score from the english teachers will help you judge your progress when will i receive my score report right after you finish except for the english composition essay which requires human graders and whose score will be mailed to you the computer will generate a printout of your score report which the administrator will hand you if you want your scores reported to a college or other institution you must fill in the correct code number on your answer sheet at the time you take the examination since your scores are kept on file for 20 years you may also request transcripts from ets at a later date studying for the clep general cbts it is crucial for you to choose the time and place for studying that works best for you some students set aside a certain number of hours every morning while others choose to study at night before going to sleep only you can determine when and where your study time will be most effective but be consistent and use your time wisely work out a study routine and stick to it when you take our practice tests try to make your testing conditions as much like the actual test as possible turn off the television or radio and sit down at a quiet table or desk free from distraction use a timer to ensure that each section is accurately clocked as you complete each practice test score it and thoroughly review the explanations for the questions you answered incorrectly however do not review too much at one sitting concentrate on one problem area at a time by reviewing the question and explanation and by studying our review until you are confident that you completely understand the material keep track of your scores and mark them on the scoring worksheet by doing so you will be able to gauge your progress and discover general weaknesses in particular sections you should carefully study the review sections that cover your areas of difficulty as this will build your skills in those areas if you do poorly on a section do not develop a negative attitude it only means you need to further review the material you should carefully study the reviews that cover your areas of difficulty as this will build your skills in those areas a negative attitude could prove to be your biggest stumbling block it is important that you get a good start and that you are positive as you review and study the

material test taking tips you may never have taken a standardized computer based test but it's not hard to learn the things you need to know to be comfortable on test day know the format of the cbt clep cbts are not adaptive but rather fixed length tests in a sense this makes them kin to the familiar pen and paper exam in that you have the same flexibility to back and review your work in each section moreover the format hasn't changed a great deal from the paper and pencil clep you are likely to see some so called pretest questions as well but you won't know which they are and they won't be scored use the process of elimination if you don't immediately see the correct answer among the choices go down the list and eliminate as many as you can confidently casting aside choices will help you isolate the correct response or at least knock your choices down to just a few strong contenders this approach has the added benefit of keeping you from getting sidetracked and distracted by what in fact may be just an occasional tricky question importantly your score is based only on the number of questions you answer correctly read all of the possible answers just because you think you have found the correct response do not automatically assume that it is the best answer read through each choice to be sure that you are not making a mistake by jumping to conclusions work quickly and steadily you will have only 45 minutes to work on an average of 50 questions in each section so work quickly and steadily to avoid focusing on any one question too long taking our practice tests will help you learn to budget your time acquaint yourself with the cbt screen familiarize yourself with the clep cbt screen beforehand by logging onto the college board website waiting until test day to see what it looks like in the pretest tutorial risks injecting needless anxiety into your testing experience be sure that your answer registers before you go to the next item look at the screen to see that your mouse click causes the pointer to darken the proper oval this takes far less effort than darkening an oval on paper but don't lull yourself into taking less care the day of the exam preparing to take the clep cbt on the day of the test you should wake up early after a decent night's rest one would hope and have a good breakfast dress comfortably so that you are not distracted by being too hot or too cold while taking the test plan to arrive at the test center early this will allow you to collect your thoughts and relax before the test and will also spare you the anxiety that comes with being late no one will be allowed into the test session after the test has begun before you set out for the test center make sure that you have your admission form social security number and a photo id with your signature e g driver's license student identification card or current alien registration card the test center administrator will ask you for photo id when you arrive after your test center fee is collected and registration is completed you will be assigned to a computer you will then key in the standard personal information including credit card information next you'll take the

tutorial during the test finally the exam will be upon you here s what to expect since it s built right into the clep testing software an on screen non graphing scientific calculator will pop up for the college mathematics cbt you should take into account however that a calculator is not deemed necessary to answer any of the test s questions scrap paper will be provided to you for all clep cbt examinations at times your computer may seem to slow down don t worry the built in timer will not advance until your next question is fully loaded and visible on screen just as you can on a paper and pencil test you ll be able to move freely between questions within a section you ll have the option to mark questions and review them you may wear a wristwatch to the test center but it cannot make any noise which could disturb your fellow test takers no computers dictionaries textbooks notebooks scrap paper briefcases or packages will be permitted into the test center drinking smoking and eating are prohibited you may however bring your own nonprogrammable calculator if you re sitting for the clep college mathematics cbt consult college board publications including the collegeboard com website for details after the test once you have informed the test center administrator that you re done you will end your session on the computer which in turn will generate the printout of a score report except for the english composition essay which requires human graders and whose score will be mailed to you that the administrator will hand you then go home and relax you deserve it

this work aims to enable students to develop physical intuition and strong prblem solving skills in addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students

questions exercises and problems after each chapter

this test preparation book includes six written practice exams and three full length computer based tests with detailed explanations to every answer all practice exams are consistent with the new format of the gre including the analytical writing assessment section this book is the product of a massive effort to provide six complete up to date practice tests based on the most recent graduate record examinations each test contains every type of question you can expect on the actual gre computer based test cbt all of the subject reviews were prepared by test experts to target specific subject matter covered on the test by completing the practice tests both written and computer based and studying the explanations and reviews provided students can discover their strengths and weaknesses and become well prepared for the actual gre system requirements cpu 75 mhz pentium or compatible 300mhz or higher recommended operating system windows including 98 me 2000 and xp ram 64mb

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