

Physics

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(Chapter 3) (Motion in a Plane) (Exercises)

(Class 11)

$$|\vec{a} - \vec{b}| < |\vec{a}| + |-\vec{b}|$$

$$|\vec{a} - \vec{b}| < |\vec{a}| + |\vec{b}| \quad \dots(\text{iii})$$

If the two vectors act in a straight line but in opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = |\vec{a}| + |\vec{b}| \quad \dots(\text{iv})$$

Combining equations (iii) and (iv), we get:

$$|\vec{a} - \vec{b}| \leq |\vec{a}| + |\vec{b}|$$

(d) Let two vectors \vec{a} and \vec{b} be represented by the adjacent sides of a parallelogram PQRS, as shown in the given figure.

The following relations can be written for the given parallelogram.

$$OS + PS = OP \quad \dots(\text{i})$$

$$OS = PS - OP \quad \dots(\text{ii})$$

$$|\vec{a} - \vec{b}| = |\vec{a}| + |\vec{b}| \quad \dots(\text{iii})$$

The quantity on the LHS is always positive and that on the RHS can be positive or negative. To make both quantities positive, we take modulus on both sides as:

$$|\vec{a} - \vec{b}| \geq |\vec{a}| - |\vec{b}|$$

$$|\vec{a} - \vec{b}| \geq |\vec{a}| - |\vec{b}| \quad \dots(\text{iv})$$

If the two vectors act in a straight line but in the opposite directions, then we can write:

$$|\vec{a} - \vec{b}| = |\vec{a}| - |\vec{b}| \quad \dots(\text{v})$$

Combining equations (iv) and (v), we get:

$$|\vec{a} - \vec{b}| \geq |\vec{a}| - |\vec{b}|$$

Question 3.7:

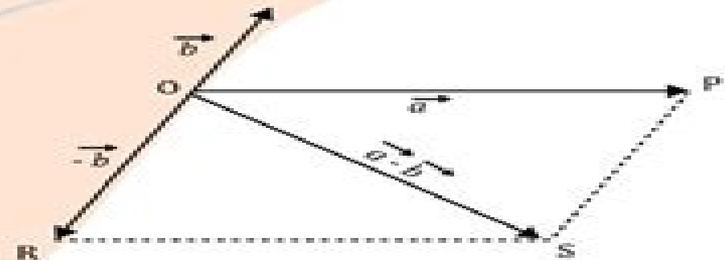
Given $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$, which of the following statements are correct:

- (a) \vec{a} , \vec{b} , \vec{c} , and \vec{d} must each be a null vector,
- (b) The magnitude of $(\vec{a} + \vec{c})$ equals the magnitude of $(\vec{b} + \vec{d})$.
- (c) The magnitude of \vec{a} can never be greater than the sum of the magnitudes of \vec{b} , \vec{c} , and \vec{d} .
- (d) $\vec{b} + \vec{c}$ must lie in the plane of \vec{a} and \vec{d} , if \vec{a} and \vec{d} are not collinear, and in the line of \vec{a} and \vec{d} , if they are collinear?

Answer 3.7:

(a) Incorrect

In order to make $\vec{a} + \vec{b} + \vec{c} + \vec{d} = \vec{0}$, it is not necessary to have all the four given vectors to be null vectors. There are many other combinations which can give the sum zero.



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Physics Chapter 3 Answers

Mike Jess



Physics Chapter 3 Answers:

MCQs for the Primary FRCA B S K Kamath, Sarah Turle, 2010-07-22 Reflecting the revised Primary FRCA exam this book is structured according to the three specific areas covered in the curriculum physics and clinical measurement physiology and pharmacology Each section includes a brief introduction a selection of MCQs and answers including a brief explanation The Gateway to Understanding: Electrons to Waves and Beyond Workbook Matthew M.

Radmanesh, 2005-05-24 324 Pages Learning the subject of electricity and electronics through the study of this workbook is tremendously more beneficial than simply purchasing and reading the book on your own The workbook provides many advantages including a A step by step approach presenting a series of lessons which are bite sized pieces of information taken from the book b The lessons act like a trail or a road to knowledge with a definite beginning and a finite end This prevents possible frustration of the reader from aimlessly reading the book or getting overwhelmed by the enormity of the subject c Solutions to many of the end of chapter quizzes provide an excellent check out to the readers comprehension of the material d A streamlined approach to learning electricity electronics which takes irrelevant materials off the direct path of achieving the final goal of total comprehension e Authors numerous comments exercises and summary adds clarity and understanding and brings simplification to a very complicated subject **Neurophilosophy of Free Will** Henrik

Walter, 2009-01-23 Walter applies the methodology of neurophilosophy to one of philosophy s central challenges the notion of free will Neurophilosophical conclusions are based on and consistent with scientific knowledge about the brain and its functioning Neuroscientists routinely investigate such classical philosophical topics as consciousness thought language meaning aesthetics and death According to Henrik Walter philosophers should in turn embrace the wealth of research findings and ideas provided by neuroscience In this book Walter applies the methodology of neurophilosophy to one of philosophy s central challenges the notion of free will Neurophilosophical conclusions are based on and consistent with scientific knowledge about the brain and its functioning Walter s answer to whether there is free will is It depends The basic questions concerning free will are 1 whether we are able to choose other than we actually do 2 whether our choices are made intelligibly and 3 whether we are really the originators of our choices According to Walter freedom of will is an illusion if we mean by it that under identical conditions we would be able to do or decide otherwise while simultaneously acting only for reasons and being the true originators of our actions In place of this scientifically untenable strong version of free will Walter offers what he calls natural autonomy self determination unaided by supernatural powers that could exist even in an entirely determined universe Although natural autonomy can support neither our traditional concept of guilt nor certain cherished illusions about ourselves it does not imply the abandonment of all concepts of responsibility For we are not mere marionettes with no influence over our thoughts or actions *Illinois Technograph* ,1961 Computational Chemistry

Errol G. Lewars, 2010-11-10 This corrected second edition contains new material which includes solvent effects the treatment

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Hoffmann, 2019-04-16 Praise for the prior edition The author has done a magnificent job this book is highly recommended for introducing biophysics to the motivated and curious undergraduate student Contemporary Physics a terrific text will enable students to understand the significance of biological parameters through quantitative examples a modern way of learning biophysics American Journal of Physics A superb pedagogical textbook Full color illustrations aid students in their understanding Midwest Book Review This new edition provides a complete update to the most accessible yet thorough introduction to the physical and quantitative aspects of biological systems and processes involving macromolecules subcellular structures and whole cells It includes two brand new chapters covering experimental techniques especially atomic force microscopy complementing the updated coverage of mathematical and computational tools The authors have also incorporated additions to the multimedia component of video clips and animations as well as interactive diagrams and graphs Key Features Illustrates biological examples with estimates and calculations of biophysical parameters Features two brand new chapters on experimental methods a general overview and focused introduction to atomic force microscopy Includes new coverage of important topics such as measures of DNA twist images of nanoparticle assembly and novel optical and electron nanoscopy Provides a guide to investigating current expert biophysical research Enhanced self study problems and an updated glossary of terms *MCAT Comprehensive Review, 2004* Kaplan, Inc, 2003 The bestselling MCAT prep guide is a must for pre med students preparing for the demanding Medical College Admissions Test MCAT The CD features one full length practice test with detailed explanations plus effective tips and strategies MCAT Comprehensive Review, 2004 *Methods of Teaching* Werrett Wallace Charters, 1912 *MCAT Comprehensive Review 1999*, 1998-11 Complete Review of ALL the science you need to know Full Length Practice Test with complete explanations for each question 2 Full Length Verbal Reasoning Tests with detailed explanations and strategies School Science and Mathematics, 1928 The Chautauquan, 1885 **Prentice Hall Chemistry**, 2000 *The Chautauquan* Theodore L. Flood, Frank Chapin Bray, 1890

Mathematics for Physicists Susan Lea, 2004 Often physics professionals are not comfortable using the mathematical

tools that they learn in school and this book discusses the mathematics that physics professionals need to master This book provides the necessary tools and shows how to use those tools specifically in physics problems Midwest Notes on books Longmans, Green and co,1917 *Issues and Perspectives* ,1995 **The House of Science** Philip R. Holzinger,1990-01-16 Grade level 4 5 6 7 e i An Introduction to Physical Science James T. Shipman,Jerry L. Adams,Jerry D. Wilson,1979 **Teacher's Supplement to Accompany an Experimental Chemistry** Lyman Churchill Newell,1901

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