

# Physics

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

(Class 11)

On comparing the components on both sides, we get:

$$P_x = P_y = 1$$

$$|\vec{P}| = \sqrt{p_x^2 + p_y^2} = \sqrt{1^2 + 1^2} = \sqrt{2} \quad \dots (i)$$

Hence, the magnitude of the vector  $\vec{i} + \vec{j}$  is  $\sqrt{2}$ .

Let  $\theta$  be the angle made by the vector  $\vec{P}$ , with the x-axis, as shown in the following figure.

$$\therefore \tan\theta = \left(\frac{P_y}{P_x}\right)$$

$$\theta = \tan^{-1}\left(\frac{1}{1}\right) = 45^\circ \quad \dots (ii)$$

Hence, the vector  $\vec{i} + \vec{j}$  makes an angle of  $45^\circ$  with the x-axis.

$$\text{Let } \vec{Q} = \vec{i} - \vec{j}$$

$$Q_x \vec{i} - Q_y \vec{j} = \vec{i} - \vec{j}$$

$$Q_x = Q_y = 1$$

$$|\vec{Q}| = \sqrt{Q_x^2 + Q_y^2} = \sqrt{2} \quad \dots (iii)$$

Hence, the magnitude of the vector  $\vec{i} - \vec{j}$  is  $\sqrt{2}$ .

Let  $\theta$  be the angle made by the vector  $\vec{Q}$ , with the x-axis, as shown in the following figure.

$$\therefore \tan\theta = \left(\frac{Q_y}{Q_x}\right)$$

$$\theta = -\tan^{-1}\left(-\frac{1}{1}\right) = -45^\circ \quad \dots (iv)$$

Hence, the vector  $\vec{i} - \vec{j}$  makes an angle of  $-45^\circ$  with the x-axis.

It is given that:

$$\vec{A} = 2\vec{i} + 3\vec{j}$$

$$A_x \vec{i} + A_y \vec{j} = 2\vec{i} + 3\vec{j}$$

On comparing the coefficients of  $\vec{i}$  and  $\vec{j}$ , we have:

$$A_x = 2 \text{ and } A_y = 3$$

$$|\vec{A}| = \sqrt{2^2 + 3^2} = \sqrt{13}$$

Let  $\vec{A}$  make an angle  $\theta$  with the x-axis, as shown in the following figure.

$$\therefore \tan\theta = \left(\frac{A_y}{A_x}\right)$$

$$\theta = \tan^{-1}\left(\frac{3}{2}\right) = \tan^{-1}(1.5) = 56.31^\circ$$

Angle between the vectors  $(2\vec{i} + 3\vec{j})$  and  $(\vec{i} + \vec{j})$ ,  $\theta = 56.31 - 45 = 11.31^\circ$

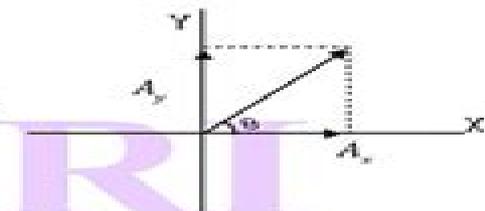
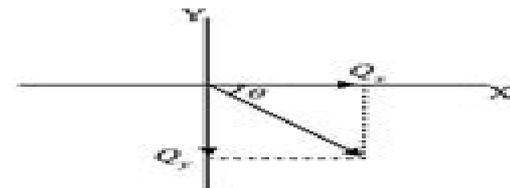
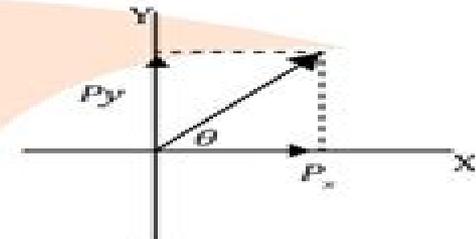
Component of vector  $\vec{A}$ , along the direction of  $\vec{P}$ , making an angle  $\theta$ .

$$= (A \cos\theta) \hat{P} = (A \cos 11.31) \frac{(\vec{i} + \vec{j})}{\sqrt{2}}$$

$$= \sqrt{13} \times \frac{0.9806}{\sqrt{2}} (\vec{i} + \vec{j})$$

$$= 2.5 (\vec{i} + \vec{j}) = \frac{25}{10} \times \sqrt{2}$$

$$= \frac{5}{\sqrt{2}} \quad \dots (v)$$



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# Physics Chapter 3 Answers

**R Pring**



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**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 **Quantitative Understanding**

**of Biosystems** Thomas M. Nordlund, Peter M. 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

*Computational Chemistry* Errol G. Lewars, 2010-11-10 This corrected second edition contains new material which includes solvent effects the treatment of singlet diradicals and the fundamentals of computational chemistry Computational Chemistry Introduction to the Theory and Applications of Molecular and Quantum Mechanics is an invaluable tool for teaching and researchers alike The book provides an overview of the field explains the basic underlying theory at a meaningful level that is not beyond beginners and it gives numerous comparisons of different methods with one another and with experiment The following concepts are illustrated and their possibilities and limitations are given potential energy surfaces simple and extended Hueckel methods ab initio AM1 and related semiempirical methods density functional theory DFT Topics are placed in a historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers

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

*The Chautauquan*, 1885

**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

**Methods of Teaching** Werrett Wallace Charters, 1912

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Verbal Reasoning Tests with detailed explanations and strategies     *School Science and Mathematics* ,1928     **Issues and Perspectives** ,1995     The Chautauquan Theodore L. Flood, Frank Chapin Bray, 1890     Teacher's Supplement to Accompany an Experimental Chemistry Lyman Churchill Newell, 1901     *The House of Science* Philip R. Holzinger, 1990-01-16 Grade level 4 5 6 7 e i     **Reviews in Numerical Analysis, 1980-86** ,1987 These five volumes bring together a wealth of bibliographic information in the area of numerical analysis Containing over 17 600 reviews of articles books and conference proceedings these volumes represent all the numerical analysis entries that appeared in Mathematical Reviews between 1980 and 1986 Author and key indexes appear at the end of volume 5     **New Zealand Engineering** ,1961     The Rainbow Book, Being a Collection of Essays & Illustrations Devoted to Rainbows in Particular & Spectral Sequences in General, Focusing on the Meaning of Color (physically & Metaphysically) from Ancient to Modern Times F. Lanier Graham, 1975

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