

Trigonometry

Ratios and Laws

Trigonometric Ratios



$$\tan \alpha = \frac{a}{b}$$

$$\tan \beta = \frac{b}{a}$$

$$\cot \alpha = \frac{1}{\tan \alpha} = \frac{b}{a}$$

$$\cot \beta = \frac{1}{\tan \beta} = \frac{a}{b}$$

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\sin \alpha = \frac{a}{c}$$

$$\sin \beta = \frac{b}{c}$$

$$\csc \alpha = \frac{1}{\sin \alpha} = \frac{c}{a}$$

$$\csc \beta = \frac{1}{\sin \beta} = \frac{c}{b}$$

$$\cot \theta = \frac{\cos \theta}{\sin \theta}$$

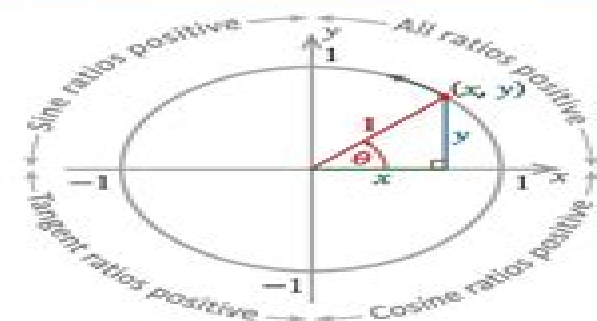
$$\cos \alpha = \frac{b}{c}$$

$$\cos \beta = \frac{a}{c}$$

$$\sec \alpha = \frac{1}{\cos \alpha} = \frac{c}{b}$$

$$\sec \beta = \frac{1}{\cos \beta} = \frac{c}{a}$$

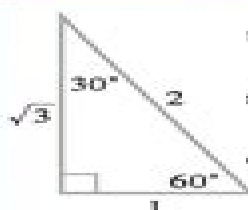
Unit Circle and Signs in Quadrants



$$\tan \theta = \frac{y}{x} \quad \sin \theta = \frac{y}{1} = y \quad \cos \theta = \frac{x}{1} = x$$

$$\cot \theta = \frac{x}{y} \quad \csc \theta = \frac{1}{y} \quad \sec \theta = \frac{1}{x}$$

Exact Ratios



$$\tan 60^\circ = \sqrt{3}$$

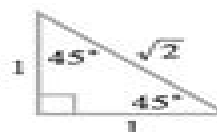
$$\tan 30^\circ = \frac{1}{\sqrt{3}}$$

$$\sin 60^\circ = \frac{\sqrt{3}}{2}$$

$$\sin 30^\circ = \frac{1}{2}$$

$$\cos 60^\circ = \frac{1}{2}$$

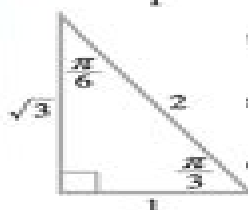
$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$



$$\tan 45^\circ = 1$$

$$\sin 45^\circ = \frac{1}{\sqrt{2}}$$

$$\cos 45^\circ = \frac{1}{\sqrt{2}}$$



$$\tan \frac{\pi}{3} = \sqrt{3}$$

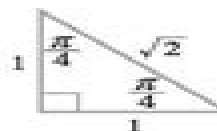
$$\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$$

$$\sin \frac{\pi}{3} = \frac{\sqrt{3}}{2}$$

$$\sin \frac{\pi}{6} = \frac{1}{2}$$

$$\cos \frac{\pi}{3} = \frac{1}{2}$$

$$\cos \frac{\pi}{6} = \frac{\sqrt{3}}{2}$$



$$\tan \frac{\pi}{4} = 1$$

$$\sin \frac{\pi}{4} = \frac{1}{\sqrt{2}}$$

$$\cos \frac{\pi}{4} = \frac{1}{\sqrt{2}}$$

Sine Law for Triangles



$$\frac{a}{\sin \alpha} = \frac{b}{\sin \beta} = \frac{c}{\sin \gamma}$$

$$\text{Area} = \frac{1}{2} ab \sin \gamma = \frac{1}{2} ac \sin \beta = \frac{1}{2} bc \sin \alpha$$

$$\alpha = \sin^{-1} \left(\frac{a \sin \beta}{b} \right) = \sin^{-1} \left(\frac{a \sin \gamma}{c} \right)$$

$$\beta = \sin^{-1} \left(\frac{b \sin \alpha}{a} \right) = \sin^{-1} \left(\frac{b \sin \gamma}{c} \right)$$

$$\gamma = \sin^{-1} \left(\frac{c \sin \alpha}{a} \right) = \sin^{-1} \left(\frac{c \sin \beta}{b} \right)$$

Cosine Law for Triangles

$$a^2 = b^2 + c^2 - 2bc \cos \alpha \quad \alpha = \cos^{-1} \left(\frac{b^2 + c^2 - a^2}{2bc} \right)$$

$$c^2 = a^2 + b^2 - 2ab \cos \gamma \quad \gamma = \cos^{-1} \left(\frac{a^2 + b^2 - c^2}{2ab} \right)$$

$$b^2 = a^2 + c^2 - 2ac \cos \beta \quad \beta = \cos^{-1} \left(\frac{a^2 + c^2 - b^2}{2ac} \right)$$

Tangent Law for Triangles

$$\frac{a-b}{a+b} = \frac{\tan \left[\frac{1}{2} (\alpha - \beta) \right]}{\tan \left[\frac{1}{2} (\alpha + \beta) \right]}$$

$$\frac{b-c}{b+c} = \frac{\tan \left[\frac{1}{2} (\beta - \gamma) \right]}{\tan \left[\frac{1}{2} (\beta + \gamma) \right]}$$

$$\frac{a-c}{a+c} = \frac{\tan \left[\frac{1}{2} (\alpha - \gamma) \right]}{\tan \left[\frac{1}{2} (\alpha + \gamma) \right]}$$

Mollweide's Rule

$$\frac{a+b}{c} = \frac{\cos \left[\frac{\alpha - \beta}{2} \right]}{\sin \left[\frac{\gamma}{2} \right]}$$

$$\frac{a-b}{c} = \frac{\sin \left[\frac{\alpha - \beta}{2} \right]}{\cos \left[\frac{\gamma}{2} \right]}$$

Degrees and Radians

If θ is an angle in degrees and α is the same angle in radians:

$$\theta = \alpha \times \frac{180}{\pi}$$

$$\alpha = \theta \times \frac{\pi}{180}$$



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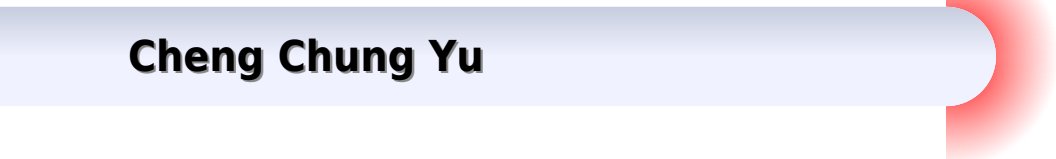
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Cheng Chung Yu



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Key Maths GCSE, 2002 These Teacher Files are designed to supplement and support the material covered at GCSE

CliffsTestPrep Regents Integrated Algebra Workbook American BookWorks Corporation, 2008-06-02 Designed with New York State high school students in mind CliffsTestPrep is the only hands on workbook that lets you study review and answer practice Regents exam questions on the topics you re learning as you go Then you can use it again as a refresher to prepare for the Regents exam by taking a full length practicetest Concise answer explanations immediately follow each question so everything you need is right there at your fingertips You ll get comfortable with the structure of the actual exam while also pinpointing areas where you need further review About the contents Inside this workbook you ll find sequential topic specific test questions with fully explained answers for each of the following sections Number Sense and Operations Algebra Geometry Measurement Statistics and Probability A full length practice test at the end of the book is made up of questions culled from multiple past Regents exams Use it to identify your weaknesses and then go back to those sections for more study It s that easy The only review as you go workbook for the New York State Regents exam

Easy Guide to Key Concepts in Integrated Algebra I Joseph Pousada, 2013-09-01 The goal of this book is to bring key concepts in this subject to you in an easy to understand manner with detailed examples that show you how things are done

New Essential Mathematics for GCSE David Kent, 1997 A revised edition of this text with explanations worked examples and exam questions to cover GCSE Maths in one year

Pedagogical Material in Mathematics -A Handbook for Pre-service and In-service Teachers Dr. Roohi Fatima, 2022-03-21 Pedagogical material has an effective role in the teaching learning process of mathematics It engages the learner and sustains their interest in mathematics By using the Pedagogical Materials given in this book properly in mathematics classrooms teachers can empower their students to think like Creative Mathematicians Concrete examples of Pedagogical Material and their detailed description used by the author and her students for teaching different concepts in Real Mathematics Classrooms are discussed in different chapters of this book Each activity describes in detail not only the required material how to make that pedagogical material and how to use perform it in the classroom but also what is the objective of this activity and what should be the previous knowledge entry behaviour of the child to understand that concept

Key Maths GCSE David Baker, 2002-01-25 Developed for the AQA Specification revised for the

new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for non specialist useful supplementary ideas and homework sheets

Mathematics for Grades VII, VIII, and IX. Saint Louis (Mo.). Board of Education,1926 *Class 10 Maths Formula Xpress* Akanksha Mathur,2025-11-12 *Formula Xpress Class 10 Mathematics* is a complete and concise companion for Class 10 students preparing for their board exams This book covers all important formulas key definitions from every chapter of the Class 10 Maths syllabus in an easy to understand format It is perfect for last minute revision self study and daily formula reference Features Chapter wise important formulas and short notes Easy and clear layout for better learning Useful for CBSE ICSE and State Boards Whether you are revising for your exams or brushing up on concepts Formula Xpress will make Maths simple and enjoyable *The Sibley Journal of Engineering* ,1925 **Proceedings** ,2003 **A Crash Course in AIEEE Mathematics 2011** , *e-O-Level Essential Study Guide Add Maths [Geometry & Trigonometry]* Cheng Chung Yu,2010-05-25 The Essential Study Guide Additional Mathematics series comes in three parts Part 1 Focuses on the building up of the foundation in Algebra Part 2 Understanding the concepts in Geometry and Trigonometry Part 3 Focuses on Calculus Differentiation and Integration This series of books follows the latest curriculum The author hopes to make the learning of Additional Mathematics less daunting and stressful Students will be able to learn at their own pace and individual learning is made possible with the simple and yet detailed explanations of concepts *Course In Mathematics For The Iit-Jee And Other Engineering Entrance Examinations: Trigonometry* Choubey K. R.,2011-09 **The Common Core Mathematics Companion: The Standards Decoded, High School** Frederick L. Dillon,W. Gary Martin,Basil M. Conway IV,Marilyn E. Strutchens,2017-09-12 Your User s Guide to the Mathematics Standards When it comes to mathematics standards aligned is achievement aligned In the short time since The Common Core Mathematics Companions for grades K 2 3 5 and 6 8 burst on the scene they have been lauded as the best resources for making critical mathematics ideas easy to teach With this brand new volume high school mathematics success is at your fingertips Page by page the authors lay out the pieces of an in depth explanation including The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number quantity algebra functions geometry and statistics and probability building from the 8th grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning The Common Core Mathematics Companion The Standards Decoded High School has what every high school teacher needs to provide students with the foundation for the concepts and skills they will be expected to know *ICEMS'2001* Fengxiang Wang,Renyuan Tang,2001 *The Pearson Guide for Quantitative Aptitude for CAT And Other MBA Entrance Examinations*,

2/e Time, Your Mathematics Standards Companion, High School Frederick L. Dillon, W. Gary Martin, Basil M. Conway IV, Marilyn E. Strutchens, 2018-02-06 Transforming the standards into learning outcomes just got a lot easier In this resource you can see in an instant how teaching to your state standards should look and sound in the classroom Under the premise that math is math the authors provide a Cross Referencing Index for states implementing their own specific mathematics standards allowing you to see and understand which page number to turn to for standards based teaching ideas It's all here page by page The mathematical progression of each conceptual category starting with modeling as a unifying theme and moving through number and quantity algebra functions geometry and statistics and probability building from eighth grade standards The mathematics embedded in each conceptual category for a deeper understanding of the content How standards connect within and across domains and to previous grade standards so teachers can better appreciate how they relate How content standards connect with the standards for mathematical practice with a focus on modeling as a unifying theme Example tasks progressions of tasks and descriptions of what teachers and students should be doing to foster deep learning Your Mathematics Standards Companion is your one stop guide for teaching planning assessing collaborating and designing powerful high school mathematics curriculum in any state or district

Ultimate Foundation for JEE Mathematics: Class IX Cengage India, 2022-05-19 The Ultimate Foundation series is a comprehensive resource to build strong foundation in Science and Mathematics for students who want to pursue engineering and medical education This series presents an integrated curriculum with transdisciplinary approach aiming to foster inquisitive mindset critical thinking as well as scientific and mathematical aptitude among the early learners This series provides a class tested course material including different levels of practice questions and supplementary digital resources The content is designed in such a way that the student can understand the concepts on their own without any external assistance Its comprehensive in depth approach and types of assessments will help the learner realize their full potential by learning and applying the acquired knowledge of the subjects in both the school examinations and various competitive examinations

Jacaranda Maths Quest 12 Foundation Mathematics VCE Units 3 and 4 learnON and Print Mark Barnes, Pauline Holland, Christine Utber, 2022-12-27 Jacaranda Maths Quest 12 Foundation Mathematics VCE Units 3 and 4 Everything your students need to succeed The best Mathematics series for the new VCE Study Design Developed by expert Victorian teachers for VCE students Investigations are available for all Units to build student competence and confidence

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