

Trigonometry

Ratios and Laws

Trigonometric Ratios



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

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

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

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

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

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

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

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

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

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

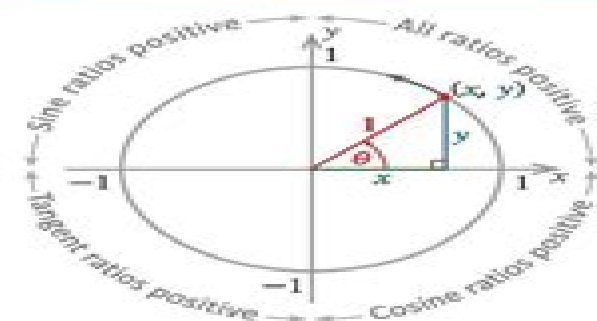
$$\cos \alpha = \frac{b}{c}$$

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

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

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

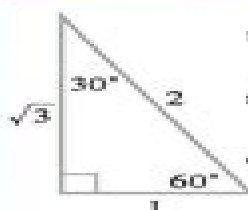
Unit Circle and Signs in Quadrants



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

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

Exact Ratios



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

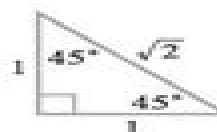
$$\tan 30^\circ = \frac{1}{\sqrt{3}}$$

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

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

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

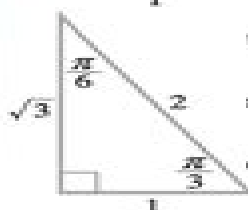
$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$



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

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

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



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

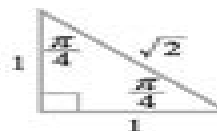
$$\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$$

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

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

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

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



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

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

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

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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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 **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 **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 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

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Table of Contents Trigonometric Ratios Sheet

1. Understanding the eBook Trigonometric Ratios Sheet
 - The Rise of Digital Reading Trigonometric Ratios Sheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometric Ratios Sheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trigonometric Ratios Sheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometric Ratios Sheet
 - Personalized Recommendations
 - Trigonometric Ratios Sheet User Reviews and Ratings
 - Trigonometric Ratios Sheet and Bestseller Lists
5. Accessing Trigonometric Ratios Sheet Free and Paid eBooks
 - Trigonometric Ratios Sheet Public Domain eBooks
 - Trigonometric Ratios Sheet eBook Subscription Services
 - Trigonometric Ratios Sheet Budget-Friendly Options

6. Navigating Trigonometric Ratios Sheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Trigonometric Ratios Sheet Compatibility with Devices
 - Trigonometric Ratios Sheet Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trigonometric Ratios Sheet
 - Highlighting and Note-Taking Trigonometric Ratios Sheet
 - Interactive Elements Trigonometric Ratios Sheet
8. Staying Engaged with Trigonometric Ratios Sheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trigonometric Ratios Sheet
9. Balancing eBooks and Physical Books Trigonometric Ratios Sheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trigonometric Ratios Sheet
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Trigonometric Ratios Sheet
 - Setting Reading Goals Trigonometric Ratios Sheet
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Trigonometric Ratios Sheet
 - Fact-Checking eBook Content of Trigonometric Ratios Sheet
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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