

Trigonometry

Ratios and Laws

Trigonometric Ratios



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

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

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

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

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

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

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

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

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

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

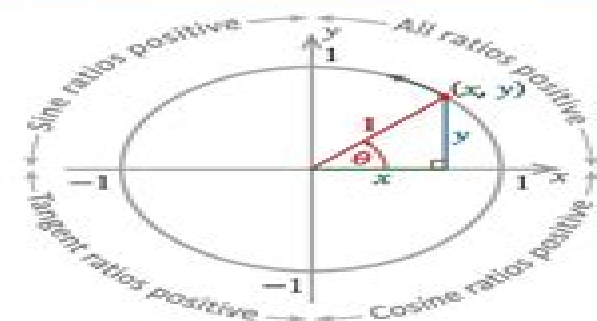
$$\cos \alpha = \frac{b}{c}$$

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

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

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

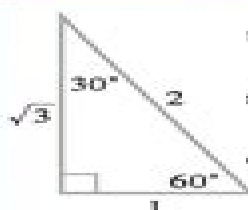
Unit Circle and Signs in Quadrants



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

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

Exact Ratios



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

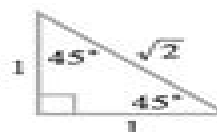
$$\tan 30^\circ = \frac{1}{\sqrt{3}}$$

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

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

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

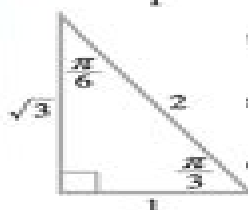
$$\cos 30^\circ = \frac{\sqrt{3}}{2}$$



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

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

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



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

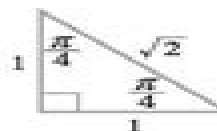
$$\tan \frac{\pi}{6} = \frac{1}{\sqrt{3}}$$

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

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

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

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



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

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

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

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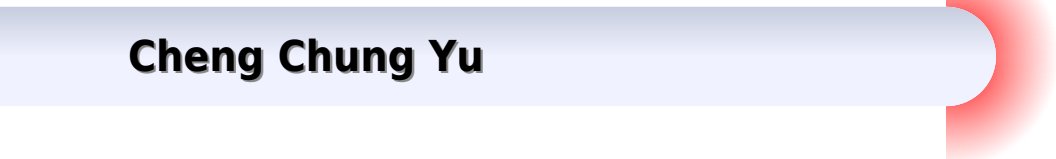
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Key Maths GCSE, 2002 These Teacher Files are designed to supplement and support the material covered at GCSE

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 [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 *Mathematics for Grades VII, VIII, and IX*. Saint Louis (Mo.). Board of Education, 1926 **The**

Sibley Journal of Engineering, 1925 *Proceedings*, 2003 **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 **Pedagogical Material in Mathematics -A**

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ICEMS'2001 Fengxiang Wang,Renyuan Tang,2001 *Elements of Plane Trigonometry* Henry Sharp,1958 Introduction Fundamental concepts Introduction to the trigonometric functions Numerical properties of the trigonometric functions Periodicity and basic graphs Trigonometric identities and equations Multiple angle formulas The inverses of the trigonometric functions Solution of triangles Topics related to periodicity The complex number system Scientific notation Numerical measurement Logarithms Trigonometric tables *Annual Report - Dept. of Education* Saskatchewan. Department of Education,1913

The Architects' Journal Library of Information Sheets ,1952 **Annual Report** ,1911 Plane and Solid Geometry William Betz,1916 *Plane Geometry* William Betz,Harrison Emmett Webb,1912 **Mathematics Teaching** ,1962 Annual Report Saskatchewan. Department of Education,1913 *The Relative Effects of Variations in Pure and Physical Approaches to the Teaching of Euclidean Geometry on Pupils' Problem Solving Ability* Theodore Edward Kellogg,1956 **Pipe work. Heating** Joint Arbitration Board of the Chicago Master Steam Fitters' Association and the Steam Fitters' Protective Association. Local 597, U. A. of Chicago,1940

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web isle royale has offered many discoveries how wolves affect populations of their prey how population health is affected by inbreeding and genetics what moose teeth can tell us about long term trends in air pollution how ravens give wolves a reason to live in packs why wolves don t always eat all the food that they kill and more

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web sep 27 2021 this activity explores images of wolves hunting a moose on isle royale which serve as phenomena for learning about predator prey population dynamics isle royale an island in lake superior is the site of the longest continuous predator prey study in the world since 1958 scientists have monitored the island s wolf and moose

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web cause the moose and wolf populations to fluctuate over time the isle royale model in ecobeaker in this lab you will explore populations of predators and prey using a simplified simulation model of the isle royale system the isle royale model involves three species plants moose and wolves

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web wolf moose populations 1980 to today the populations of wolves and moose on isle royale constantly adjust as food availability weather and seasons affect the health and reproduction of the animals over time notice as the wolf population declines the moose population increases and vice versa in the past forty years isle royale has

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web but we get a different sense is if we also consider the highest density of moose ever observed on isle royale 4 4 moose km² in 1996 and the subsequent year when the moose population collapsed see section 1 this observation is represented by the point on the lower right portion of the graph

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web 1 how much of a time lag does there appear to be between a moose peak and a wolf peak the time lag between the wolf peak of 1980 and the moose peak of 1995 is about a 15 year time lag 2 during what year was there a large wolf die off hypothesize what might have been the cause of this die off there was a large wolf die off after 1980

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web to analyze the relationship of predator prey interactions between moose and wolves what is population growth changes in the size and composition of populations and the factors that cause those changes fill in the blanks the larger a population

becomes the it

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web oct 14 2020 the moose population of isle royale has fluctuated over the years since 1980 the population has been as low as 500 animals and as high as 2 400 the fluctuation of population is directly connected to the vegetation and predators of the island

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web what animals populated isle royale after the moose how did they reach the island and what effect did this have on the moose population a small pack of wolves found and crossed a rare ice bridge that formed between the mainland and isle royale in the 1940s

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web wolves and moose of isle royale visit to answer the following introductory questions 1 what are the predators and prey involved in this activity wolf and moose wolf and moose 2 what is the purpose of this study for example how long has this study been happening why did it start what are the goals 3

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web provide a biological explanation for why the moose population overshoots its carrying capacity when moose first colonize isle royale hint consulting the introduction might help at year 50 or later with the moose population at its carrying capacity what would happen if an extra 200 moose suddenly arrived on isle royale how would this

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web isle royale worksheet this lab simulation will take place in the simutext software by simbio use this worksheet to make sure you can answer questions about the lab that may appear on your lab quiz i e stable moose population for moose approx 200 the capacity did not change because moose are limited by plant growth which did not