Trigonometric Identities

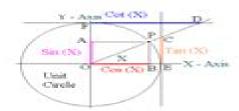
The six trigonometric functions/Reciprocals Identities

$$\sin x = \frac{opp}{hyp} = \frac{y}{r} = \frac{1}{\csc x}$$

$$\cos x = \frac{adj}{hyp} = \frac{x}{r} = \frac{1}{\sec x}$$

$$\cot x = \frac{opp}{adj} = \frac{y}{x} = \frac{\sin x}{\cos x}$$

$$\cot x = \frac{adj}{opp} = \frac{x}{y} = \frac{1}{\tan x} = \frac{\cos x}{\sin x}$$



Pythagorean Identities

$$\sin^2 x + \cos^2 x = 1$$

 $\tan^2 x - \sec^2 x = -1$

$$\cos^2 x = 1 - \sin^2 x$$

1 + $\tan^2 x = \sec^2 x$

$$sin^2x = 1 - cos^2x$$
$$1 + cot^2x = csc^2x$$

Sum or difference of two angles

$$sin(a + b) = sina cosb + cosa sinb$$

 $sin(a - b) = sina cosb - cosa sinb$
 $tan(a + b) = \frac{tan a + tan b}{1 - tan a tan b}$

$$cos(a - b) = cosa cosb + sina sinb
 $tan(a - b) = \frac{tan a - tan b}{1 + tan a tan b}$$$

cos(a + b) = cosa cosb - sina sinb

Double Angle Formulas

$$\cos 2x = 1 - 2\sin^2 x$$
 $\cos 2x = 2\cos^2 x - 1$

$$\cos 2x = \cos^2 x - \sin^2 x$$
 $\sin 2x = 2\sin x \cos x$

$$\tan 2x = \frac{2 \tan x}{1 - \tan^2 x}$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$

$$\cos^2 x = \frac{1 + \cos 2x}{2}$$

$$\tan^2 x = \frac{1 - \cos 2x}{1 + \cos 2x}$$

$$\sin \frac{x}{2} = \pm \sqrt{\frac{1 - \cos x}{2}}$$

$$\cos \frac{x}{2} = \pm \sqrt{\frac{1 + \cos x}{2}}$$

$$\tan\frac{x}{2} = \pm\sqrt{\frac{1-\cos x}{1+\cos x}} = \frac{\sin x}{1+\cos x} = \frac{1-\cos x}{\sin x}$$

Reduction Formulas

$$sin(-x) = -sinx$$
 $cos(-x) = cosx$
 $sin(x) = -sin(x - \pi)$ $cos(x) = -cos(x - \pi)$
 $tan(-x) = -tanx$ $tan(x) = tan(x - \pi)$

$$\pm \sin x = \cos \left(x \pm \frac{\pi}{2} \right) \qquad \pm \cos x = \sin \left(x \pm \frac{\pi}{2} \right)$$

$a^2 = b^2 + c^2 - 2bc \cos A$ Law of costnes

(where A is the angle of a scalene △ opposite side a)

Co-Functions

$$\sin x = \cos(90^{\circ} - x)$$
 $\cos x = \sin(90^{\circ} - x)$

$$tanx = cot(90^{\circ} - x)$$
 $secx = csc(90^{\circ} - x)$

Sum and Product Formulas

$$sina cosb = Valsin(a + b) + sin(a - b)1$$

 $cosa sinb = Valsin(a + b) - sin(a - b)1$

$$cosa cosb = V_2[cos(a + b) + cos(a - b)]$$

 $sina sinb = V_2[cos(a - b) - cos(a + b)]$

$$\sin x + \sin y = 2 \sin \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$
$$\cos x + \cos y = 2 \cos \left(\frac{x+y}{2}\right) \cos \left(\frac{x-y}{2}\right)$$

$$\sin x - \sin y = 2\cos\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$
$$\cos x - \cos y = -2\sin\left(\frac{x+y}{2}\right)\sin\left(\frac{x-y}{2}\right)$$

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Trigonometry Cynthia Y. Young, 2011-11-15 **Analytic Trigonometry with Applications, Student Solutions** Manual Raymond A. Barnett, Michael R. Ziegler, Karl E. Byleen, Dave Sobecki, 2009-09-08 Learning trigonometry concepts can be a difficult and frustrating process The tenth edition of this successful book helps readers gain a strong understanding of these concepts by discovering how trigonometry is relevant in their lives through rich applications. It follows a right triangle first approach and is graphing optional Readers will find new and updated applications as well as additional exercises and solutions Greater emphasis is also placed on relevant applications more than other books in the field All of this Higher Engineering Mathematics, 7th ed John Bird, 2014-04-11 will help readers comprehend and retain the material A practical introduction to the core mathematics principles required at higher engineering level John Bird's approach to mathematics based on numerous worked examples and interactive problems is ideal for vocational students that require an advanced textbook Theory is kept to a minimum with the emphasis firmly placed on problem solving skills making this a thoroughly practical introduction to the advanced mathematics engineering that students need to master The extensive and thorough topic coverage makes this an ideal text for upper level vocational courses Now in its seventh edition Engineering Mathematics has helped thousands of students to succeed in their exams The new edition includes a section at the start of each chapter to explain why the content is important and how it relates to real life It is also supported by a fully updated companion website with resources for both students and lecturers It has full solutions to all 1900 further questions contained Bird's Higher Engineering Mathematics John Bird, 2021-03-25 Higher Engineering in the 269 practice exercises Mathematics has helped thousands of students to succeed in their exams by developing problem solving skills It is supported by over 600 practical engineering examples and applications which relate theory to practice The extensive and thorough topic coverage makes this a solid text for undergraduate and upper level vocational courses Its companion website provides resources for both students and lecturers including lists of essential formulae ands full solutions to all 2 000 further questions contained in the 277 practice exercises and illustrations and answers to revision tests for adopting course Calculus Howard Anton, Irl C. Bivens, Stephen Davis, 2021-10-19 In the newly revised Twelfth Edition of instructors Calculus Early Transcendentals an expert team of mathematicians delivers a rigorous and intuitive exploration of calculus introducing polynomials rational functions exponentials logarithms and trigonometric functions early in the text Using the Rule of Four the authors present mathematical concepts from verbal algebraic visual and numerical points of view The book includes numerous exercises applications and examples that help readers learn and retain the concepts discussed within Study Guide: Trigonometry William R. Krickenberger, 1956 Precalculus Cynthia Y. Young, 2010-01-19 Engineers

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