Basic Trigonometric Identities

$\sin\theta = \frac{1}{\csc\theta}$	$\cos\theta = \frac{1}{\sec\theta}$	$\tan\theta = \frac{1}{\cot\theta}$	$\tan\theta = \frac{\sin\theta}{\cos\theta}$
$\csc\theta = \frac{1}{\sin\theta}$	$\sec\theta = \frac{1}{\cos\theta}$	$\cot\theta = \frac{1}{\tan\theta}$	$\cot\theta = \frac{\cos\theta}{\sin\theta}$

Pythagorean Identities

$\sin^2\theta + \cos^2\theta = 1$	$1 + \cot^2\theta = \csc^2\theta$	$\tan^2\theta + 1 = \sec^2\theta$
$\sin^2\theta = 1 - \cos^2\theta$	$\cot^2\theta = \csc^2\theta - 1$	$\tan^2\theta = \sec^2\theta - 1$
$\cos^2\theta = 1 - \sin^2\theta$	$1 = \csc^2\theta - \cot^2\theta$	$1 = \sec^2\theta - \tan^2\theta$

Double-Angle Identities

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

Half-Angle Identities

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

Product Identities

$$\sin A\cos B = \frac{1}{2}[\sin(A+B) + \sin(A-B)]$$

$$\cos A\sin B = \frac{1}{2}[\sin(A+B) - \sin(A-B)]$$

$$\sin A\sin B = \frac{1}{2}[\cos(A-B) - \cos(A+B)]$$

$$\cos A\cos B = \frac{1}{2}[\cos(A+B) + \cos(A-B)]$$

Law of Sines (known pair)

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Law of Cosines (no known pair)

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

$$b^2 = a^2 + c^2 - 2ac\cos B$$

$$c^2 = a^2 + b^2 - 2ab\cos C$$

Cofunction Identities

$\sin\theta = \cos(90° - \theta)$	$\sec\theta = \csc(90° - \theta)$	$\tan\theta = \cot(90° - \theta)$
$\cos\theta = \sin(90° - \theta)$	$\csc\theta = \sec(90° - \theta)$	$\cot\theta = \tan(90° - \theta)$

Odd/Even Identities

$\sin(-\theta) = -\sin\theta$	$\cos(-\theta) = \cos\theta$	$\tan(-\theta) = -\tan\theta$
$\csc(-\theta) = -\csc\theta$	$\sec(-\theta) = \sec\theta$	$\cot(-\theta) = -\cot\theta$

Sum and Difference Identities

$\sin(A+B) = \sin A\cos B + \cos A\sin B$	$\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A\tan B}$
$\sin(A-B) = \sin A\cos B - \cos A\sin B$	
$\cos(A+B) = \cos A\cos B - \sin A\sin B$	$\tan(A-B) = \frac{\tan A - \tan B}{1 + \tan A\tan B}$
$\cos(A-B) = \cos A\cos B + \sin A\sin B$	

More Sum and Difference Identities

$\sin x + \sin y = 2\sin\frac{x+y}{2}\cos\frac{x-y}{2}$	$\cos x + \cos y = 2\cos\frac{x+y}{2}\sin\frac{x-y}{2}$
$\sin x - \sin y = 2\cos\frac{x+y}{2}\sin\frac{x-y}{2}$	$\cos x - \cos y = -2\sin\frac{x+y}{2}\sin\frac{x-y}{2}$

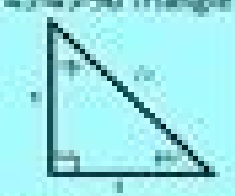
Area of Triangle

$\frac{1}{2}bc\sin A$
$\frac{1}{2}ab\sin C$
$\frac{1}{2}ac\sin B$

Converting between Degrees and Radians

π radians	$\frac{180°}{\pi \text{ radians}}$
180°	

45-45-90 Triangle



Complementary Angles sum to 90°

C ⇔

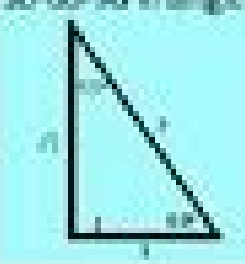
Supplementary Angles sum to 180°

S ⇔

All Students Take Calculus

Sin +	All +
Tan +	Cos +

30-60-90 Triangle



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Graphic Calculus Precalculus With Unit Circle Trigonometry

SA Adler

Graphic Calculus Precalculus With Unit Circle Trigonometry:

Reviewing **Graphic Calculus Precalculus With Unit Circle Trigonometry**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Graphic Calculus Precalculus With Unit Circle Trigonometry**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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