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Trigonometry - REA's Quick Access Reference Chart (Quick Access Reference Charts)



FAST FACTS REVIEW

Quick Access

TRIGONOMETRY

TRIGONOMETRIC DEFINITIONS

A. ACUTE AND OBTUSE

- Acute angle is less than 90°
- Obtuse angle is more than 90°

B. RIGHT ANGLE

- Right angle is 90°

C. STRAIGHT ANGLE

- Straight angle is 180°

D. REFLEX ANGLE

- Reflex angle is more than 180°

E. SUPPLEMENTARY ANGLES

- Supplementary angles are angles that add to 180°

F. COMPLEMENTARY ANGLES

- Complementary angles are angles that add to 90°

G. REFLEX ANGLE

- Reflex angle is more than 180°

H. VERTICAL ANGLES

- Vertical angles are opposite angles at a vertex

I. ADJACENT ANGLES

- Adjacent angles are angles that share a common vertex and a common side

J. COMPLEMENTARY ANGLES

- Complementary angles are angles that add to 90°

K. RIGHT ANGLE


- Right angle is 90°

L. STRAIGHT ANGLE

- Straight angle is 180°

TRIGONOMETRIC FUNCTIONS

A. RIGHT ANGLE TRIGONOMETRY



Given an acute angle θ in a right-angled triangle:

- Adjacent side to θ is the side next to θ .
- Opposite side to θ is the side opposite to θ .
- Hypotenuse is the longest side of the triangle.

Trigonometric ratios:

sine: $\sin \theta = \frac{\text{Opposite}}{\text{Hypotenuse}}$

cosine: $\cos \theta = \frac{\text{Adjacent}}{\text{Hypotenuse}}$

tangent: $\tan \theta = \frac{\text{Opposite}}{\text{Adjacent}}$

cotangent: $\cot \theta = \frac{\text{Adjacent}}{\text{Opposite}}$

secant: $\sec \theta = \frac{\text{Hypotenuse}}{\text{Adjacent}}$

cosecant: $\csc \theta = \frac{\text{Hypotenuse}}{\text{Opposite}}$

B. CONVERTING BETWEEN RADIANS AND DEGREES

To convert from degrees to radians multiply by $\frac{\pi}{180}$.

To convert from radians to degrees multiply by $\frac{180}{\pi}$.

TRIGONOMETRIC FUNCTIONS

A. RIGHT ANGLE TRIGONOMETRY

CONVERSIONS

$180^\circ = \pi$ radians

$90^\circ = \frac{\pi}{2}$ radians

$60^\circ = \frac{\pi}{3}$ radians

$45^\circ = \frac{\pi}{4}$ radians

$30^\circ = \frac{\pi}{6}$ radians

θ	30°	45°	60°
$\sin \theta$	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$
$\cos \theta$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$
$\tan \theta$	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$
$\cot \theta$	$\sqrt{3}$	1	$\frac{1}{\sqrt{3}}$
$\sec \theta$	$\frac{2}{\sqrt{3}}$	$\sqrt{2}$	2
$\csc \theta$	2	$\sqrt{2}$	$\frac{2}{\sqrt{3}}$

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Synopsis

Fast Facts at Your Fingertips! REA's Quick Access Study Charts contain all the information students, teachers, and professionals need in one handy reference. They provide quick, easy access to important facts. The charts contain commonly used mathematical formulas, historical facts, language conjugations, vocabulary and more! Great for exams, classroom reference, or a quick refresher on the subject. Most laminated charts consist of 2 fold-out panels (4 pages) that fit into any briefcase or backpack. Each chart has a 3-hole punch for easy placement in a binder. Each chart measures 8 1/2" x 11"

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High quality and delivered on time.

Very helpful and it got here quickly

Very helpful!! Good for both high school students and Praxis math content exam candidates.

STATRED $y = \sec^{-1} x = \text{arcsec } x$ means $x = \sin y$ is wrong

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