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# Trigonometry – REA's Quick Access Reference Chart (Quick Access Reference Charts)

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## TRIGONOMETRY

**FAST FACTS REVIEW**

**TRIGONOMETRY**

**Angle Type Definitions**

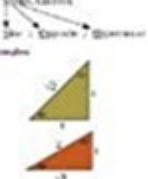
- acute angle: An angle less than  $90^\circ$ .
- right angle: An angle that measures  $90^\circ$ .
- obtuse angle: An angle greater than  $90^\circ$  but less than  $180^\circ$ .
- straight angle: An angle greater than  $180^\circ$  but less than  $360^\circ$ .
- supplementary angles: Two angles whose sum is  $180^\circ$ .
- complementary angles: Two angles whose sum is  $90^\circ$ .
- reflex angle: An angle greater than  $360^\circ$  but less than  $720^\circ$ .
- vertical angles: Two angles that are opposite each other when two lines intersect.
- adjacent angles: Two angles that share a common vertex and a common side, but have no common interior points.
- congruent angles: Angles that have the same measure.
- right triangle: A triangle that has one right angle.
- obtuse triangle: A triangle that has one obtuse angle.
- acute triangle: A triangle that has three acute angles.

**Trigonometric Functions**

- comparing between radians and degrees:
  - to convert from degrees to radians, multiply by  $\frac{\pi}{180}$ .
  - to convert from radians to degrees, multiply by  $\frac{180}{\pi}$ .
  - degree mode:  $30^\circ = \frac{\pi}{6}$ ;  $45^\circ = \frac{\pi}{4}$ ;  $60^\circ = \frac{\pi}{3}$ .
- right angle trigonometry:
  - Opposite side: The side opposite the right angle.
  - adjacent side: The side adjacent to the right angle.
  - hypotenuse: The side opposite the right angle.

side	adjacent	opposite	hypotenuse
cosine	$\frac{\text{adjacent}}{\text{hypotenuse}}$	$\frac{\text{opposite}}{\text{hypotenuse}}$	
secant	$\frac{1}{\text{cosine}}$		
tangent		$\frac{\text{opposite}}{\text{adjacent}}$	
cosecant		$\frac{1}{\text{sine}}$	
secant			$\frac{1}{\text{cosine}}$
cotangent		$\frac{\text{adjacent}}{\text{opposite}}$	
- measuring the ratios:

The mnemonic device SOH-CAH-TOA is often used to remember the ratios. Each group of three letters consists of how to find the sine, cosine and tangent.


- special right triangles:
  - 30-60-90 triangle
  - 45-45-90 triangle

	$30^\circ$	$60^\circ$	$90^\circ$
sin	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$	$1$
cos	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$0$
tan	$\frac{\sqrt{3}}{3}$	$\sqrt{3}$	$0$
csc	$2$	$\frac{2\sqrt{3}}{3}$	$1$
sec	$\frac{2\sqrt{3}}{3}$	$2$	$1$
cot	$\frac{\sqrt{3}}{3}$	$0$	$\frac{\sqrt{3}}{3}$

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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  $y = \sec^{-1} x$  means  $x = \sec y$  is wrong

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