

# Trigonometry

Trigonometry comes from the Greek words *trigonon* (triangle) and *metron* (measure). It is the study of triangles. Trigonometry is usually studied as the measurements of sides and angles of triangles and trigonometric functions on a unit circle. The measures of angles are usually represented by letters from the Greek alphabet such as  $\alpha$ ,  $\beta$ ,  $\gamma$ ,  $\delta$ , and  $\pi$ .

## Definitions & the Pythagorean Theorem

- Right triangle:** Triangle with exactly one  $90^\circ$  right angle.
- Hypotenuse:** Longest side of a right triangle; always located opposite the right angle.
- Legs:** The two shorter sides of a right triangle.
- EQU:** Triangle  $ABC$  is a right triangle,  $30^\circ$  and  $60^\circ$  are legs, and  $90^\circ$  is the hypotenuse.



The Pythagorean Theorem states that the sum of the squares of the legs of a right triangle is equal to the square of the hypotenuse.

Symbolically, this is represented as  $a^2 + b^2 = c^2$ , where  $a$  and  $b$  are the lengths of the legs of a right triangle, and  $c$  is the length of the hypotenuse.

## Trigonometric Ratios

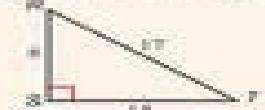
- Ratios of the lengths of two sides of a right triangle relative to a given angle. These include the sine, cosine, and tangent ratios.
- In right triangle  $ABC$  with acute angles  $A$  and  $B$ , the ratios are defined as follows:
  - Sine ratios:** Ratio of the opposite leg to the hypotenuse.
  - Cosine ratios:** Ratio of the adjacent leg to the hypotenuse.
  - Tangent ratios:** Ratio of the opposite leg to the adjacent leg.



## Trigonometric Ratios

Sine ratios	Cosine ratios	Tangent ratios
$\sin A = \frac{a}{c}$	$\cos A = \frac{b}{c}$	$\tan A = \frac{a}{b}$
$\sin B = \frac{b}{c}$	$\cos B = \frac{a}{c}$	$\tan B = \frac{b}{a}$

EQU: Find the sine, cosine, and tangent ratios for the acute angles in right triangle  $ABC$ .



## Right Triangles:

EQU: Solve for  $x$  in right triangle  $ABC$ .



### Solutions:

Use the Pythagorean Theorem.

$$\begin{aligned} a^2 + b^2 &= c^2 \\ 24^2 + 20^2 &= x^2 \\ 576 + 400 &= x^2 \\ 976 &= x^2 \\ x &= 31.2 \end{aligned}$$

## Special Right Triangles

There are two special right triangles with proportions that are very useful in problem solving. These triangles occur in strength applications that their side length relationships should be remembered.

A  $45^\circ$ - $45^\circ$ - $90^\circ$  triangle has a  $45^\circ$  angle, a  $45^\circ$  angle, and a right angle. In a  $45^\circ$ - $45^\circ$ - $90^\circ$  triangle, the sides are in the ratio  $1 : \sqrt{2} : \sqrt{2}$ . In other words, if the shorter

leg has length  $x$ , then the longer leg is  $x\sqrt{2}$  units long, and the hypotenuse is  $2$  units long.

EQU: If  $x = 15\sqrt{2}$ , then  $a = 15$ ,  $b = 15$ , and  $c = 30$ .



A  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle has two  $45^\circ$  angles and a right angle. In a  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle, the sides are in the ratio  $1 : \sqrt{3} : 2$ . If the legs each have length  $x$ , then the hypotenuse is  $x\sqrt{3}$  units long.

EQU: If  $x = 6\sqrt{3}$ , then  $a = 6$ ,  $b = 6\sqrt{3}$ , and  $c = 12\sqrt{3}$ .



## Right Triangle Trigonometry

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

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

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

\*The reciprocal trigonometric ratios are the cosecant, secant, and cotangent ratios.

### Reciprocal Trigonometric Ratios

Opposite	Opposite/adjacent	Opposite/adjacent
Cosecant	$\csc A = \frac{c}{a}$	Secant
Cotangent	$\cot A = \frac{b}{a}$	$\csc A = \frac{1}{\sin A}$

## Trigonometric Functions

\*The trigonometric ratios define trigonometric functions of an angle measure. In this example, the functions  $y = \sin(90^\circ)$ ,  $y = \cos(90^\circ)$ ,  $y = \tan(90^\circ)$ ,  $y = \csc(90^\circ)$ ,  $y = \sec(90^\circ)$ , and  $y = \cot(90^\circ)$  can be used to describe the particular ratio for a given angle measure. You can use a scientific calculator to

estimate the values of trigonometric functions for a given angle measure.

\*Inverse trigonometric functions take a given ratio and "undo" the corresponding trigonometric function to determine the angle measure. These functions are denoted by the prefix  $\text{arc}$  or by an exponent of  $-1$ .

EQU: The three functions  $y = \sin x$ ,  $y = \cos x$ , and  $y = \tan x$  are inverse trigonometric functions of the sine, cosine, and tangent functions, respectively.

NOTICE: The  $-1$  exponent used in the notation  $y = \sin^{-1} x$  indicates the inverse sine function, not the reciprocal of the sine function. This uses "arc" and "arcsin". Be careful to recognize the correct notation when solving problems involving inverse trigonometric functions.

## Solving for Unknown Sides & Angles

\*Trigonometric ratios and inverse trigonometric functions can be used to find unknown side lengths and angle measures in right triangles.

EQU: Find  $\sin A$  and  $\cos C$  in the figure. Round to the nearest tenth of a degree.



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**James Tanton**

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