

# Trigonometry

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

## Right Triangles

### 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.
- EX: Triangle ABC is a right triangle.  
AC and BC are legs, and AB 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.

EX: Solve for  $r$  in right triangle RST.



**Solution:**  
Use the Pythagorean Theorem.  
 $r^2 + t^2 = c^2$   
 $r^2 + (24)^2 = (26)^2$   
 $r^2 = 576 - 676$   
 $r^2 = 100$   
 $r = 10$  cm

### Special Right Triangles

- There are two **special right triangles** with properties that are very useful in problems solving. These triangles occur in enough applications that their side length relationships should be memorized.
- A  **$30^\circ$ - $60^\circ$ - $90^\circ$  triangle** has a  $30^\circ$  angle, a  $60^\circ$  angle, and a right angle. In a  $30^\circ$ - $60^\circ$ - $90^\circ$  triangle, the sides are in the ratio  $1 : \sqrt{3} : 2$ . In other words, if the shorter

- leg has length  $x$ , then the longer leg is  $x\sqrt{3}$  units long, and the hypotenuse is 2 units long.
- EX: If  $x = 15$  ft, then  $b = 15\sqrt{3}$  ft, and  $c = 30$  ft.



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

EX: If  $x = 6.4$  mm, then  $t = 6.4$  mm, and  $w = 6.4\sqrt{2}$  mm.



## Trigonometric Ratios

- Ratio of the length 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 ratio:** Ratio of the opposite leg to the hypotenuse.
  - Cosine ratio:** Ratio of the adjacent leg to the hypotenuse.
  - Tangent ratio:** Ratio of the opposite leg to the adjacent leg.



### Trigonometric Ratios

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

EX: Find the sine, cosine, and tangent ratios for the acute angles in right triangle RST.



## Right Triangle Trigonometry

$$\begin{aligned}\sin B &= \frac{12}{13} & \sin T &= \frac{8}{13} \\ \cos B &= \frac{5}{13} & \cos T &= \frac{12}{13} \\ \tan B &= \frac{12}{5} & \tan T &= \frac{5}{12}\end{aligned}$$

- The **reciprocal trigonometric ratios** are the cosecant, secant, and tangent ratios.

### Reciprocal Trigonometric Ratios

Cosecant (Reciprocal of sine)	$\csc \theta = \frac{1}{\sin \theta} = \frac{\text{hypotenuse}}{\text{opposite}}$
Secant (Reciprocal of cosine)	$\sec \theta = \frac{1}{\cos \theta} = \frac{\text{hypotenuse}}{\text{adjacent}}$
Cotangent (Reciprocal of tangent)	$\cot \theta = \frac{1}{\tan \theta} = \frac{\text{adjacent}}{\text{opposite}}$

### Trigonometric Functions

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

$$\begin{aligned}\sin(50^\circ) &= 0.766 \\ \cos(34.5^\circ) &= 0.707 \\ \tan(23.4^\circ) &= 0.435 \\ \csc(60^\circ) &= 1.155 \\ \sec(75^\circ) &= 3.864 \\ \cot(15^\circ) &= 3.732\end{aligned}$$

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 *arc* or by an exponent of  $-1$ .
- EX: The three functions  $y = \arcsin x = \sin^{-1} x$ ,  $y = \arccos x = \cos^{-1} x$ , and  $y = \arctan x = \tan^{-1} x$  represent the inverses of the sine, cosine, and tangent functions, respectively.

**NOTE:** The  $-1$  exponent used in the notation  $y = \sin^{-1} x$  indicates the inverse sine function, not the reciprocal of the sine function. Thus,  $\sin^{-1} x$  is *not*  $\frac{1}{\sin x}$ . 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.

EX: Find  $m\angle A$  and  $m\angle C$  in the figure. Round to the nearest tenth of a degree.



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**James Tanton**



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