

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 as points on a unit circle. The measures of angles are usually represented by letters from the Greek alphabet such as θ , α , β , and γ .

Right Triangles

Definitions & the Pythagorean Theorem

- Right triangle:** Triangle with exactly one 90° (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° - 60° - 90° triangle** has a 30° angle, a 60° angle, and a right angle. In a 30° - 60° - 90° 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° - 45° - 90° triangle** has two 45° angles and a right angle. In a 45° - 45° - 90° 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 $m = 6.4\sqrt{2}$ 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

$$\begin{aligned}\sin B &= \frac{12}{17} & \sin T &= \frac{6}{17} \\ \cos B &= \frac{6}{17} & \cos T &= \frac{12}{17} \\ \tan B &= \frac{12}{6} & \tan T &= \frac{6}{12}\end{aligned}$$

- 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, θ . 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 (sine)⁻¹. 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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