



Trigonometry

BACKGROUND AND DEFINITIONS

TRIGONOMETRY DEFINED

Trigonometry is the study of relationships between angles and lengths, especially in triangles.

THE COORDINATE PLANE

The Cartesian (or **coordinate**) plane is an infinite plane with two special perpendicular lines called **axes**. A **point** on the plane is identified by an **ordered pair of coordinates**—the distances from the two axes.

- x-axis:** Usually, the horizontal axis of the coordinate plane.
- y-axis:** Usually, the vertical axis of the coordinate plane.
- Origin:** $(0, 0)$, the point of intersection of the x-axis and the y-axis.

- Quadrants:** The four regions of the coordinate plane created by the intersection of the two axes. By convention, they are numbered I, II, III, and IV counter-clockwise, starting with the upper-right quadrant.



FUNCTIONS

For more about functions, see the SparkCharts on Functions.

- Function:** A rule for generating values. For every value you plug into the function, there's a unique value that comes out. Often denoted as $f(x)$: for every value $x = a$ that you plug in, $f(a)$ is the result.
- Domain:** The set of possible incoming values, x , for a function.
- Range:** The set of possible outcomes of $f(x)$.
- Graphing a function:** The process of plotting all the points $(x, f(x))$ in the coordinate plane.
- Vertical line test:** Checks if something is a function by looking at its graph: any vertical line in the coordinate plane must intersect the graph at most one time. For every x -value, there is at most one y -value.

ANGLES

- Ray:** Part of a line with one fixed endpoint extending infinitely in one direction.
- Two rays that share a common endpoint create an angle.** The common endpoint is called the **vertex** of the angle.
- Often we think of an angle as being formed by rotating a ray clockwise or counterclockwise.** We then distinguish between the **initial side** (starting position of the ray) and the **terminal side** (end position of the ray) of the angle.



MEASURING ANGLES

Two rays that originate from the same vertex can be measured two ways. There are two standard units for measuring angles.

- Degree:** If a unit of angular measure is defined as complete revolution is 360° , each degree is subdivided into 60 minutes, and each minute is subdivided into 60 seconds.
- Radian (rad):** A unit of angular measure for which a complete revolution measures 2π radians. The radius becomes of an angle is the length of any arc of the unit circle cut off by that angle.
- Converting between degrees and radians:**

$$1 \text{ revolution} = 360^\circ = 2\pi \text{ rad}$$

$$1 \text{ rad} = \frac{180^\circ}{\pi} \approx \frac{1}{\pi} \text{ revolutions}$$

$$1^\circ = \frac{\pi}{180} \text{ rad} \approx \frac{1}{180} \text{ revolution}$$
- Isotropy angles:** When viewed as geometric objects, angles are usually defined with respect to lines—often when the vertex $(0, 0)$ and the sides measured in degrees. When viewed as isotropy, angle measures are often given through letters (A, B, C) and are usually specified in radians. In trigonometry—either in geometry—the distinction between angles and their measures is often not made $(A, B, C = 45^\circ)$.



If angle θ has both an initial and terminal position.

ANGLES IN THE COORDINATE PLANE

- Standard position:** An angle is in standard position when its vertex lies at the origin and its initial side lies along the positive x-axis.
- Unit circle:** The circle of radius 1 centered at the origin.
- Any angle given a point on the unit circle.**
- Negative and positive angles:** By convention, positive angles are measured counterclockwise, negative angles are measured clockwise.
- Multiple rotations:** The angles θ , $\theta + 2\pi$, $\theta - 2\pi$, $\theta + 4\pi$, etc., all define the same point on the unit circle.
- Reference angles:** For any angle in standard position, the **reference angle** is the positive acute angle formed by its terminal side and the x-axis.



If angle $\theta = 2\pi$ both go past 2π on the unit circle.



If angle theta is in the second quadrant.

TYPES OF ANGLES

- Zero angle:** $0^\circ = 0 \text{ rad}$. The initial side and the terminal side coincide in standard position, the terminal side is on the positive x-axis.
- Acute angle:** Less than $90^\circ = \frac{\pi}{2} \text{ rad}$. Between a zero angle and a right angle, in standard position the terminal side is in Quadrant I.
- Right angle:** $90^\circ = \frac{\pi}{2} \text{ rad}$. The initial side is perpendicular to the terminal side. In standard position, the terminal side is on the positive y-axis.
- Obtuse angle:** Greater than $90^\circ = \frac{\pi}{2} \text{ rad}$ and less than $180^\circ = \pi \text{ rad}$. Between a right angle and a straight angle, in standard position, the terminal side is in Quadrant II.
- Straight angle:** $180^\circ = \pi \text{ rad}$. The initial side and the terminal side lie on the same line. In standard position, the terminal side is on the negative x-axis.
- Oblique angle:** Either acute or obtuse (not zero, right, or straight).
- Complementary angles:** Two angles that sum to a right angle.
- Supplementary angles:** Two angles that sum to a straight angle.
- Coterminal angles:** Two angles in standard position whose terminal sides coincide. Angles θ and ϕ are coterminal if $\theta = \phi + 2\pi k$ for some integer k (positive or negative).



Zero angle



Acute angle



Right angle



Obtuse angle



Straight angle

TRIGONOMETRIC FUNCTIONS

The two ways of thinking about angles—as rotations from the standard position, or as ratios drawn in a geometric figure—give two ways of thinking about trigonometric functions.

...BASED ON THE UNIT CIRCLE

Any angle θ defines a point $P = (x, y)$ on the unit circle. Substituting the coordinates of this point gives the trigonometric functions of θ .



Any angle theta will find P

- Sine:** $\sin \theta = y$, the y-coordinate of P . For all θ , $-1 \leq \sin \theta \leq 1$.
- Cosine:** $\cos \theta = x$, the x-coordinate of P . For all θ , $-1 \leq \cos \theta \leq 1$.
- Tangent:** $\tan \theta = \frac{y}{x}$, the slope of the line OP.
- Secant:** $\sec \theta = \frac{1}{\cos \theta} = \frac{1}{x}$.

$$\text{Cosecant: } \csc \theta = \frac{1}{\sin \theta} = \frac{1}{y}$$

$$\text{Cotangent: } \cot \theta = \frac{1}{\tan \theta} = \frac{\cos \theta}{\sin \theta}$$

Because θ and $\theta + 2\pi$ define the same point on the unit circle, all trigonometric functions are **periodic** with a **period** of 2π (also, π , $\pi/2$, or $3\pi/2$, etc.).

...BASED ON A RIGHT TRIANGLE

An angle θ in a right triangle is measured from the origin. The sides are labeled as the **adjacent** of the side lengths of a right triangle. θ will be an angle of 0° (the side will be θ) or 90° (the side will be θ). The angle θ will be 0° and the measure of angle θ will be 90° .



$$\text{Sine: } \sin \theta = \frac{\text{opposite side}}{\text{hypotenuse}}$$

$$\text{Cosine: } \cos \theta = \frac{\text{adjacent side}}{\text{hypotenuse}}$$

$$\text{Tangent: } \tan \theta = \frac{\text{opposite side}}{\text{adjacent side}}$$

$$\text{Cosecant: } \csc \theta = \frac{1}{\sin \theta} = \frac{\text{hypotenuse}}{\text{opposite side}}$$

$$\text{Secant: } \sec \theta = \frac{1}{\cos \theta} = \frac{\text{hypotenuse}}{\text{adjacent side}}$$

$$\text{Cotangent: } \cot \theta = \frac{1}{\tan \theta} = \frac{\text{adjacent side}}{\text{opposite side}}$$

REMEMBER: SPARKCHARTS Sine is Opposite over Hypotenuse, Cosine is Adjacent over Hypotenuse, Tangent is Opposite over Adjacent.

$$\text{Cosecant: } \csc \theta = \frac{1}{\sin \theta} = \frac{\text{hypotenuse}}{\text{opposite side}} = \frac{1}{\sin \theta}$$

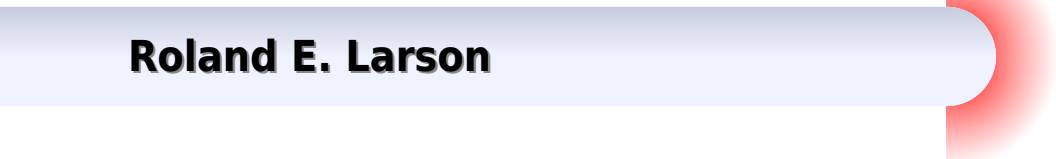
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