



Trigonometry

BACKGROUND AND DEFINITIONS

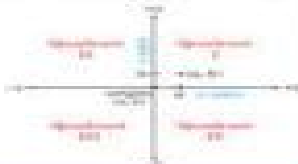
TRIGONOMETRY DEFINED

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.

- Angles:** Usually, the **horizontal axis** of the coordinate plane.
- Positive:** 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, where'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 **input** values, x , for a function $f(x)$.
- Range:** The set of possible **output** values 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 no more than once. For every x -value, there is at most one y -value.

ANGLES

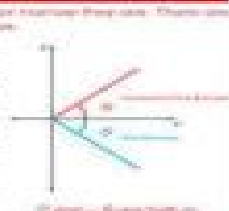
- Ray:** Part of a line with one fixed endpoint extending without bound in one direction.
- Two rays that share a common endpoint create an angle.** The common endpoint is called the **vertex** of the angle.
- Other:** we think of an angle as being formed by rotating a ray **clockwise** or **counterclockwise**. 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

We measure angles in two basic units to measure they are. These are two standard units of measuring angles.

- Degree (°):** A unit of angular measure in which a 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 in which a complete revolution measures 2π radians. The radian measure of an angle is the length of arc of the unit circle cut off by that angle.
- Converting between degrees and radians:**
 - 1 revolution = 360° = 2π rad
 - 1 rad = 180°/π ≈ 57.3°
 - 1° = π/180 rad ≈ 0.0175 radians
- Labeling angles:** When viewed as geometric shapes, angles are usually labeled with capital letters—often after the vertex (like A, B)—and often measured in degrees. When viewed as rotations, angle measures are often given Greek letters (like θ, φ) and are usually specified in radians. In trigonometry—unlike in geometry—the distinction between angles and their measures is often not made (like $A = 45^\circ$).



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 gives a point on the unit circle.**
- Negative and positive angles:** If you rotate, positive angles are measured counterclockwise; negative angles are measured clockwise.
- Multiple rotations:** The angles θ , $\theta + 2\pi$, $\theta - 2\pi$, $\theta + 4\pi$, ... all define the same point on the unit circle.
- Reference angle:** For any angle in standard position, the **reference angle** is the positive acute angle formed by its terminal side and the x-axis.



TYPES OF ANGLES

- Zero angle:** $0^\circ = 0$ 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 $90^\circ = \frac{\pi}{2}$ rad. Between a zero angle and a right angle. In standard position the terminal side is in Quadrant I.
- Right angle:** $90^\circ = \frac{\pi}{2}$ 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 $90^\circ = \frac{\pi}{2}$ rad and less than $180^\circ = \pi$ rad. Between a right angle and a straight angle. In standard position, the terminal side is in Quadrant II.
- Straight angle:** $180^\circ = \pi$ 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 angles:** 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).



TRIGONOMETRIC FUNCTIONS

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

...BASED ON THE UNIT CIRCLE

An angle θ defines a point $P = (x, y)$ on the unit circle (measuring the counterclockwise arc from the point (1, 0) gives the trigonometric function of θ).



- 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:** $\sec \theta = \frac{1}{\cos \theta} = \frac{1}{x}$.

- Cosecant:** $\csc \theta = \frac{1}{\sin \theta} = \frac{1}{y}$.
 - Cotangent:** $\cot \theta = \frac{x}{y} = \frac{1}{\tan \theta} = \frac{\cos \theta}{\sin \theta}$.
- Because θ and $\theta + 2\pi$ define the same point on the unit circle, all trigonometric functions are **periodic** with a **period** of 2π (like, say, $\sin$, $\cos$), or π (like, say, $\tan$).

...BASED ON A RIGHT TRIANGLE

For an acute angle A , we can define the trigonometric functions by looking at the sides of the **reference right triangle**. Add in angles on 0° (the vertex A') to refer to the point A , the angle $\angle C'A'A$, and the measure of angle $\angle C'A'A$.



- Sine:** $\sin A = \frac{y}{r} = \frac{\text{opposite side}}{\text{hypotenuse}}$
- Cosine:** $\cos A = \frac{x}{r} = \frac{\text{adjacent side}}{\text{hypotenuse}}$
- Tangent:** $\tan A = \frac{y}{x} = \frac{\text{opposite side}}{\text{adjacent side}}$

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

- Cosecant:** $\csc A = \frac{r}{y} = \frac{\text{hypotenuse}}{\text{opposite side}} = \frac{1}{\sin A}$
- Secant:** $\sec A = \frac{r}{x} = \frac{\text{hypotenuse}}{\text{adjacent side}} = \frac{1}{\cos A}$
- Cotangent:** $\cot A = \frac{x}{y} = \frac{\text{adjacent side}}{\text{opposite side}} = \frac{1}{\tan A}$

Trigonometry Sparkcharts

**Irving Drooyan, Walter Hadel, Charles
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