



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 start at 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 but extend in different directions form an **angle**. There are two standard ways of measuring angles.

- Degree ($^\circ$):** A unit of angular measure by 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 by which a complete revolution measures 2π radians. The radius becomes of an angle is the length of any ray 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 angles, angles are usually measured with respect to zero—often when the vertex (the x -axis) coincides with the origin. When viewed as rotations, angle measures are often given from 0 to 2π (or 0 to 360) and are usually specified in radians. In trigonometry—either in geometry—the distinction between angles and their measures is often not made (for θ , $\theta = 45^\circ$).



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 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.



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).



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 .



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

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

$$\text{Cotangent: } \cot \theta = \frac{x}{y} = \frac{\cos \theta}{\sin \theta}$$

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

...BASED ON A RIGHT TRIANGLE

An **acute angle** θ can define the angles, hypotenuse, and sides of the triangle of the side lengths of a right triangle. $\sin \theta$ is the ratio of θ 's side over θ 's hypotenuse. $\cos \theta$ is the ratio of θ 's adjacent side over θ 's hypotenuse.



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

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

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

$$\text{Cosecant: } \csc \theta = \frac{r}{y} = \frac{\text{hypotenuse}}{\text{opposite side}}$$

$$\text{Secant: } \sec \theta = \frac{r}{x} = \frac{\text{hypotenuse}}{\text{adjacent side}}$$

$$\text{Cotangent: } \cot \theta = \frac{x}{y} = \frac{\text{adjacent side}}{\text{opposite side}}$$

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

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

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

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

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



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Table of Contents Trigonometry Sparkcharts

1. Understanding the eBook Trigonometry Sparkcharts
 - The Rise of Digital Reading Trigonometry Sparkcharts
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometry Sparkcharts
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trigonometry Sparkcharts
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometry Sparkcharts
 - Personalized Recommendations
 - Trigonometry Sparkcharts User Reviews and Ratings
 - Trigonometry Sparkcharts and Bestseller Lists

5. Accessing Trigonometry Sparkcharts Free and Paid eBooks
 - Trigonometry Sparkcharts Public Domain eBooks
 - Trigonometry Sparkcharts eBook Subscription Services
 - Trigonometry Sparkcharts Budget-Friendly Options
6. Navigating Trigonometry Sparkcharts eBook Formats
 - ePub, PDF, MOBI, and More
 - Trigonometry Sparkcharts Compatibility with Devices
 - Trigonometry Sparkcharts Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trigonometry Sparkcharts
 - Highlighting and Note-Taking Trigonometry Sparkcharts
 - Interactive Elements Trigonometry Sparkcharts
8. Staying Engaged with Trigonometry Sparkcharts
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trigonometry Sparkcharts
9. Balancing eBooks and Physical Books Trigonometry Sparkcharts
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trigonometry Sparkcharts
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Trigonometry Sparkcharts
 - Setting Reading Goals Trigonometry Sparkcharts
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Trigonometry Sparkcharts
 - Fact-Checking eBook Content of Trigonometry Sparkcharts
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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