



# Trigonometry

## BACKGROUND AND DEFINITIONS

### TRIGONOMETRY DEFINED

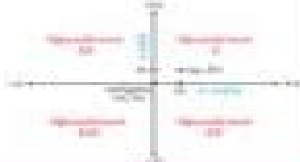
Trigonometry is the study of relationships between angles and lengths, especially in triangles.

### 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 but extend in different directions form an **angle**. There are two standard units for measuring angles.

- Degree ( $^\circ$ ):** A unit of angular measure for which a complete revolution is  $360^\circ$ ; 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  $2\pi$  radians. The radius becomes of an angle is the length of an 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 radius 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  $(B, A = 45^\circ)$ .



### 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 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  $2\pi, 4\pi, 6\pi, \dots$  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  $\theta$  and  $\phi$  are coterminal if  $\theta = \phi + 2k\pi$  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  $\theta$  defines a point  $P = (x, y)$  on the unit circle. Substituting the coordinates of this point gives the trigonometric functions of  $\theta$ .



- Sine:**  $\sin \theta = y$ , the y-coordinate of  $P$ . For all  $\theta$ ,  $-1 \leq \sin \theta \leq 1$ .
- Cosine:**  $\cos \theta = x$ , the x-coordinate of  $P$ . For all  $\theta$ ,  $-1 \leq \cos \theta \leq 1$ .
- 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  $\theta$  and  $\theta + 2\pi$  define the same point on the unit circle, all trigonometric functions are **periodic** with a **period** of  $2\pi$  (also,  $\pi$ ,  $\pi/2$ , or  $3\pi/2$ , etc.).

### ...BASED ON A RIGHT TRIANGLE

An **acute angle**  $\theta$  can define the angles, hypotenuse, adjacent, and opposite sides of the right triangle. Substituting the coordinates of this point gives the trigonometric functions of  $\theta$ . The angle  $\theta$  is the angle of the triangle, and the measure of angle  $\theta$  is  $\theta$ .



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

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

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

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

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

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

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

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

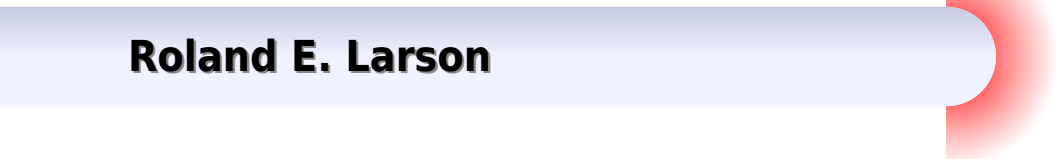
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# Trigonometry Sparkcharts

**Roland E. Larson**



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