

Math

Common Core State Standards

High School Geometry

Coordinate Geometry, Triangles, Parallelograms, Similarity, Three-Dimensional Figures, Probability, and more!

BUILDING BLOCKS OF GEOMETRY

Points, Lines, & Planes

A **point** is an exact location. It has no size or shape. Points are typically labeled with capital letters.

EXAMPLE: point A and point B



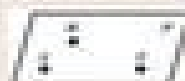
A **line** is made up of an infinite number of points. It has infinite length and no width. There is exactly one line through any two points. Lines are typically named by a lowercase letter or by two points on the line.

EXAMPLE: line L, line MN, line CD, line PQ



A **plane** is a flat surface made up of an infinite number of points. It has no thickness and extends infinitely in all directions. There is exactly one plane through any three points. Planes are typically named by a capital letter or by three points on the plane that do not lie on the same line.

EXAMPLE: plane P, plane DEF, plane GHI, plane JKL, plane MNO, plane PQR



Collinear points lie on the same line, while noncollinear points do not. Coplanar points lie in the same plane, while noncoplanar points do not.

Distance & Midpoints

A **line segment** is a portion of a line that starts at one point and ends at another point. These points are the **endpoints** of the line segment. Because a line segment has a starting point and an ending point, it has finite length that can be measured.

EXAMPLE: segment AB, segment LN, segment EF has length 1.2 cm

The **midpoint** of a segment is the point that lies halfway between the endpoints. A **segment bisector** is a segment, line, or plane that intersects a segment at its midpoint.



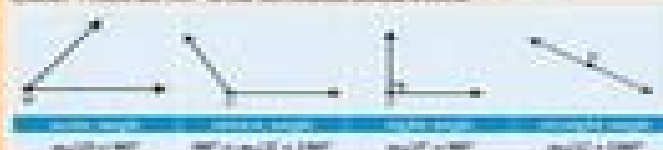
Angles

An **angle** is part of a line. Rays have one endpoint and extend infinitely in one direction. Two rays that share a common endpoint and lie on the same line are called **adjacent rays**. The ray is the sides of the angle, and the common endpoint is called the **vertex** of the angle. Angles are typically named by using the vertex and a point on each side of the angle, or by using a number.

EXAMPLE: $\angle A$, $\angle M$, $\angle ABC$, $\angle DEF$ to form angle $\angle M$ and $\angle DEF$ also vertex of the angle and has vertex M



Angles are measured in degrees, which are labeled with the symbol $^\circ$. There are 360° in one full rotation around a circle.



Parallel & Perpendicular Lines

Lines, segments, or rays that form a right angle are called **perpendicular** and are represented by the symbol \perp .

EXAMPLE: line l \perp line m



Parallel lines are coplanar lines that never intersect.

Parallel lines are represented by the symbol \parallel .

EXAMPLE: line l \parallel line m



COORDINATE GEOMETRY

The coordinate plane can be used to demonstrate and verify many geometric properties.

Slopes of Parallel & Perpendicular Lines

The **slope** of a line or segment in the coordinate plane is the horizontal rise. For two points on the line or segment, the slope can be calculated as the change in the y-coordinates divided by the change in the x-coordinates.

Slope Formula: For the points (x_1, y_1) and (x_2, y_2) , the slope of the line or segment that contains the points is given by $m = \frac{y_2 - y_1}{x_2 - x_1}$.

Parallel lines have the same slope, and perpendicular lines have slopes that are opposite reciprocals.

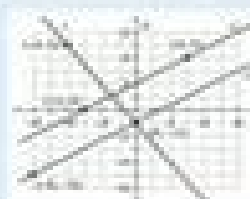
EXAMPLE: Find the slope of each line and determine the relationship between them.

$$\text{slope of line } a = \frac{y_2 - y_1}{x_2 - x_1} = \frac{-1 - 3}{4 - 1} = -\frac{4}{3}$$

$$\text{slope of line } b = \frac{y_2 - y_1}{x_2 - x_1} = \frac{4 - 8}{2 - 1} = -4$$

$$\text{slope of line } c = \frac{y_2 - y_1}{x_2 - x_1} = \frac{3 - 1}{4 - 2} = 1$$

Lines a and b have the same slope, so they are parallel. The slope of line c is the opposite reciprocal of the slope of line a, so line c is perpendicular to line a.



Distance Formula

Length can be calculated on the coordinate plane using the **Distance Formula**. The **Distance Formula** for two points on the coordinate plane is given by the formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$.

EXAMPLE: Find the length of \overline{AB} with endpoints A(1, -2) and B(4, 2).

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} \quad \text{Distance Formula}$$

$$d = \sqrt{(4 - 1)^2 + (2 - (-2))^2} \quad \text{Substitute the coordinates of the endpoints.}$$

$$d = \sqrt{3^2 + 4^2} \quad \text{Simplify.}$$

$$\text{The length of } \overline{AB} \text{ is } \sqrt{3^2 + 4^2} = 5 \text{ units.}$$

Figures on the Coordinate Plane

Geometric figures can be represented on the coordinate plane, and you can use slope and the Distance Formula to study them.

EXAMPLE: Quadrilateral ABCD has vertices located at A(1, 4), B(4, 4), C(4, 1), D(1, 1), and E(1, 1). Determine the type of quadrilateral and find the area.

1. Plot the figure on a coordinate plane. Then find the slopes of the sides.

$$\text{slope of } \overline{AB} = 1$$

$$\text{slope of } \overline{BC} = 0$$

$$\text{slope of } \overline{CD} = 0$$

$$\text{slope of } \overline{DA} = 1$$

2. Find the lengths of the sides.

$$AB = \sqrt{(4 - 1)^2 + (4 - 4)^2} = 3$$

$$BC = 3$$

$$CD = \sqrt{(4 - 1)^2 + (1 - 4)^2} = 3$$

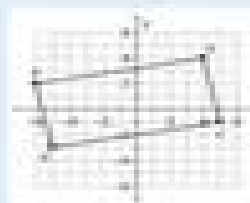
$$DA = 3$$

3. Classify the quadrilateral.

ABCD has sides that are perpendicular, so they form 90° angles. The opposite sides of ABCD are congruent. The quadrilateral is a rectangle.

4. Find the area of ABCD.

$$\text{area} = \frac{1}{2}(3 + 3)(3 + 3) = 12 \text{ units}^2$$



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