

Math

Common Core State Standards

High School Geometry

Coordinate Geometry, Congruence, 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.

EX: 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 (like l) or by two points on the line.

EX: line l , line AB , line BA , line CD , line DC

A **plane** is the 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 (like P) or by three points on the plane that do not lie on the same line.

EX: plane P , plane ABC , 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.

EX: segment AB , segment CD , EF , has length 1.2 units

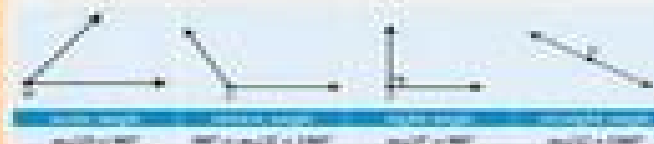
The **midpoint** of a segment is the point that lies halfway between the endpoints. It is represented by a segment bisector, or a line that intersects a segment at its midpoint.

Angles

An **angle** is part of a line. Two lines intersect and extend infinitely in every direction. The part that shows a common endpoint and two noncollinear rays is called an angle. The rays are 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.

EX: $\angle A$, $\angle M$, $\angle BAC$, $\angle ABC$, $\angle CAB$ or $\angle CBA$, $\angle MNP$ or $\angle NMP$ and $\angle PNM$ (the order of the endpoints does matter)

Angles are measured in degrees, which are related 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 .

EX: line l and line m

Parallel lines are coplanar lines that never intersect.

Parallel lines are represented by the symbol \parallel .

EX: line l and 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 change. For two points on the line or segment, the slope can be calculated as the change in the y -coordinate divided by the change in the x -coordinate.

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.

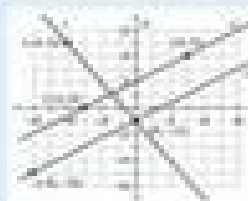
EX: Find the slope of each line and determine the relationship between them.

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

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

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

Lines l and n have the same slope so they are parallel. The slope of line m is the opposite reciprocal of the slope of line l , so l and m are perpendicular to each other.



Distance Formula

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

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

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

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

$$d = \sqrt{9 + 16}$$

$$d = \sqrt{25}$$

$$\text{The length of } \overline{AB} \text{ is } \sqrt{25} = 5 \text{ units.}$$

Figures on the Coordinate Plane

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

EX: Quadrilateral $ABCD$ has vertices located at $A(1, 6)$, $B(4, 6)$, $C(4, 2)$, and $D(1, 2)$. Determine the type of quadrilateral and find the area.

1. Find the slopes of the sides.

$$\text{slope of } \overline{AB} = \frac{6 - 6}{4 - 1} = 0$$

$$\text{slope of } \overline{BC} = \frac{2 - 6}{4 - 4} = \text{undefined}$$

$$\text{slope of } \overline{CD} = \frac{2 - 2}{1 - 4} = 0$$

$$\text{slope of } \overline{DA} = \frac{6 - 2}{1 - 1} = \text{undefined}$$

2. Find the lengths of the sides.

$$AB = \sqrt{(4 - 1)^2 + (6 - 6)^2} = 3$$

$$BC = 4$$

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

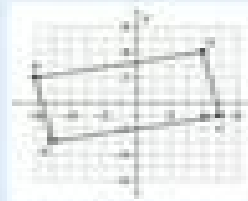
$$DA = 4$$

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 $ABCD$.

$$\text{area} = (3)(4) = 12 \text{ units}^2 \text{ or } 12 \text{ square units}$$



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