Common Core High School State Standards Geometry

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

BUILDING BLOCKS OF CEOMETRY

Points, Lines, & Planes

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

EX: point G and point Y 2

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 no typically named by a lenstrease script letter or by

EX: line I, CD, DC, line CD, line DC

A plane is a flat sorther smale 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 p plane through script letter or by there points on the plane that do not lie in the same lime.

EX: plane P. plane RST, plane RTS, plane SRT, plane STR, plane TSR, plane TRS

Collinear points lie on the same line, while noncollinear points do not. Coptanur points lie in the same plane, while noncoptanur points do not.

Distance & Midpoints

- A line segment is a section 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 required.
 - EX: segment XY, segment EX, XY, XX has length 5.2 cm. Y.
 The midpoint of a segment in 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

A ray is part of a line. Rays have one endpoint and extend infinitely in one direction. Two
easys that share a commun endpoint and are noncollinear form an angle. The rays are the
sides of the angle, and the common endpoint is called the vertex of the angle. Angles are
typically memod by using the vertex and a point on each side of
the angle, or by using a number.

EX: \(\triangle \angle AM, \(\triangle AM\), \(\triangle AM\), is formed by tays \(\triangle AM\), and \(\triangle AN\) (the sides of the angle) and has vertex \(M\).

Angles are measured in degrees, which are labeled with the symbol *. There are 360* in one full rotation around a circle.





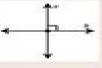
Parallel & Perpendicular Lines

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

EN: Since A. Since &

Parallel lines are coplanar lines that never intersect. Parallel lines are represented by the symbol II.







COORDINATE GEOMETRY CONTROL CONTROL

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 is the ratio of the vertical rise to the horizontal run. 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.

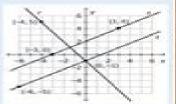
Slope Formula: For the points (x_i, y_i) and (x_i, y_j) , the slope of the line or segment that connects the points is given by $m = \frac{y_i - y_i}{2}$.

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

EX1 Find the slope of each line and determine the relationships between them.

slape of line $r: \frac{-1-5}{0-(-4)} = -\frac{3}{2}$ slape of line $r: \frac{4-0}{3-(-3)} = \frac{2}{3}$ slape of line $t: \frac{-1-(-5)}{3-(-5)} = \frac{2}{3}$

Lines s and t have the same slope, so they are parallel. The slope of time r is the opposite reciprocal of the slope of lines sand t. So, line r is perpendicular to both line



Distance Formula

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

EX: Find the length of \overline{RS} with endpoints R(3, -5) and S(-2, 6). $d = \sqrt{(x_1 - x_1)^2 + (y_1 - y_2)^2}$ Distance Formula

 $d = \sqrt{(-2-3)^2 + (6-(-5))^2} \qquad \text{Substitute the coordinates of the endpoints}.$

 $d = \sqrt{146}$ Simplify. The length of \overline{AS} is $\sqrt{146} = 12.1$ units.

Figures on the Coordinate Plane

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

- EX: Quadrilateral ABCD has vertices located at 4(-6, 2), 8(4, 4), C(5, -1),
 - and D(-5,-3). Determine the type of quadrilateral and find the area.

 1. Plot the figure on a coordinate plane.
 - Then the figure on a coordinate plane.

 Then find the slopes of the sides.

 slope of \overline{AB} : $\frac{1}{5}$

slope of \overline{AB} : $\frac{1}{5}$ slope of \overline{BC} : -5slope of \overline{CD} : $\frac{1}{5}$ slope of \overline{AD} : -5

- 2. Find the lengths of the sides.

18 - 1004 - 2/26

 $BC = \sqrt{26}$

 $CO = \sqrt{104} = 2\sqrt{26}$

 $AD = \sqrt{26}$

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.

 Find the area of ABCD, area = 2√26 (√26) = 2(26) = 52 square units.

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