

Math

Common Core State Standards

High School Geometry

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

BUILDING BLOCKS OF GEOMETRY G.CO.1

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 F



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 script letter or by two points on the line.

EX: line l , \overleftrightarrow{CD} , \overleftrightarrow{DC} , line CD , line DC



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 script letter or by three points on the plane that do not lie in the same line.

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. **Coplanar points** lie in the same plane, while **noncoplanar 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 measured.

EX: segment XY , segment YX , \overline{XY} , \overline{YX} has length 5.2 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

A **ray** is part of a line. Rays have one endpoint and extend infinitely in one direction. Two rays that share a common 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 named by using the vertex, and a point on each side of the angle, or by using a number.

EX: $\angle A$, $\angle M$, $\angle AMN$, $\angle NMA$ is formed by rays \overrightarrow{MA} and \overrightarrow{MN} (the sides of the angle) and has vertex M .



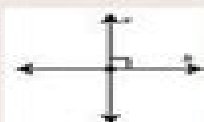
Angles are measured in **degrees**, which are labeled with the symbol $^\circ$. There are 360° in one full rotation around a circle.



Parallel & Perpendicular Lines

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

EX: line $a \perp$ line b



Parallel lines are coplanar lines that never intersect.

Parallel lines are represented by the symbol \parallel .

EX: line $c \parallel$ line d



COORDINATE GEOMETRY G.GPE.4, G.GPE.5, G.GPE.7

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_1, y_1) and (x_2, y_2) , the slope of the line or segment that connects 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.

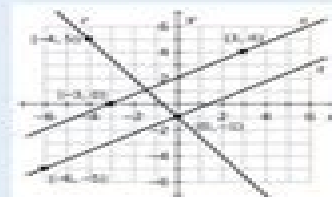
EX: Find the slope of each line and determine the relationships between them.

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

$$\text{slope of line } s: \frac{4-0}{3-(-3)} = \frac{2}{3}$$

$$\text{slope of line } t: \frac{-1-(-5)}{0-(-6)} = \frac{2}{3}$$

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



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

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

EX: Find the length of \overline{RS} with endpoints $R(3, -5)$ and $S(-2, 6)$.

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

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

$$d = \sqrt{145} \quad \text{Simplify.}$$

The length of \overline{RS} is $\sqrt{145} \approx 12.1$ 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 analyze them.

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

1. Plot the figure on a coordinate plane.

Then find the slopes of the sides.

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

$$\text{slope of } \overline{BC}: -5$$

$$\text{slope of } \overline{CD}: \frac{1}{5}$$

$$\text{slope of } \overline{AD}: -5$$

2. Find the lengths of the sides.

$$\overline{AB} = \sqrt{104} = 2\sqrt{26}$$

$$\overline{BC} = \sqrt{26}$$

$$\overline{CD} = \sqrt{104} = 2\sqrt{26}$$

$$\overline{AD} = \sqrt{26}$$

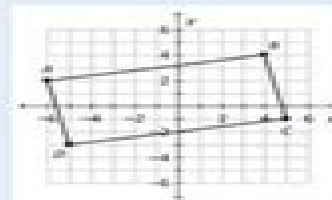
3. Classify the quadrilateral.

$ABCD$ has sides that are perpendicular, so they form 90° angles.

The opposite sides of $ABCD$ are congruent. The quadrilateral is a rectangle.

4. Find the area of $ABCD$.

$$\text{area} = 2\sqrt{26}(\sqrt{26}) = 2(26) = 52 \text{ square units}$$



Math Guide Geometry

Brenda Voyles



Math Guide Geometry:

The Complete Idiot's Guide to Geometry Denise Szecsei, 2004 Geometry is hard This book makes it easier You do the math This is the fourth title in the series designed to help high school and college students through a course they'd rather not be taking A non intimidating easy to understand companion to their textbook this book takes students through the standard curriculum of topics including proofs polygons coordinates topology and much more **Geometry Essentials For Dummies** Mark Ryan, 2011-05-12 Just the critical concepts you need to score high in geometry This practical friendly guide focuses on critical concepts taught in a typical geometry course from the properties of triangles parallelograms circles and cylinders to the skills and strategies you need to write geometry proofs Geometry Essentials For Dummies is perfect for cramming or doing homework or as a reference for parents helping kids study for exams Get down to the basics get a handle on the basics of geometry from lines segments and angles to vertices altitudes and diagonals Conquer proofs with confidence follow easy to grasp instructions for understanding the components of a formal geometry proof Take triangles in strides learn how to take in a triangle's sides analyze its angles work through an SAS proof and apply the Pythagorean Theorem Polish up on polygons get the lowdown on quadrilaterals and other polygons their angles areas properties perimeters and much more Open the book and find Plain English explanations of geometry terms Tips for tackling geometry proofs The seven members of the quadrilateral family Straight talk on circles Essential triangle formulas The lowdown on 3 D spheres cylinders prisms and pyramids Ten things to use as reasons in geometry proofs Learn to Core concepts about the geometry of shapes and geometry proofs Critical theorems postulates and definitions The principles and formulas you need to know *Geometry* Judith D. Sally, Paul J. Sally (Jr.), 2011 This geometry book is written foremost for future and current middle school teachers but is also designed for elementary and high school teachers The book consists of ten seminars covering in a rigorous way the fundamental topics in school geometry including all of the significant topics in high school geometry The seminars are crafted to clarify and enhance understanding of the subject Concepts in plane and solid geometry are carefully explained and activities that teachers can use in their classrooms are emphasised The book draws on the pictorial nature of geometry since that is what attracts students at every level to the subject The book should give teachers a firm foundation on which to base their instruction in the elementary and middle grades In addition it should help teachers give their students a solid basis for the geometry that they will study in high school The book is also intended to be a source for problems in geometry for enrichment programmes such as Math Circles and Young Scholars [Outstanding Math Guide - Geometry](#) Outstanding Guides, LLC, 2015-10-01 *Geometry* Steve Slavin, Ginny Crisonino, 2004-10-28 Learn geometry at your own pace What are congruent circles How do you find the hypotenuse of a triangle What is the sum of the angles in a decagon How can you apply geometric equations to your daily life With the unbeatable study companion Geometry A Self Teaching Guide you'll discover the answers to these questions and many more This thorough primer presents an easy to follow proven method for

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concepts like the back of their hand However this problem can be fixed with practice and some strategies for slicing through all the mumbo jumbo and getting right to the heart of the proof Geometry Workbook For Dummies ensures that practice makes perfect especially when problems are presented without the stiff formal style that you'd find in your math textbook Written with a commonsense street smart approach this guide gives you the step by step process to solve each proof along with tips shortcuts and mnemonic devices to make sure the solutions stick It also gives you plenty of room to work out your solutions providing you with space to breathe and a clear head This book provides you with the tools you need to solve all types of geometry problems including Congruent triangles Finding the area angle and size of quadrilaterals Angle arc theorems and formulas Touching radii and tangents Connecting radii and chords Parallel perpendicular and intersecting lines and planes Slope distance and midpoint formulas Line and circle equations Handling rotations reflections and other transformations Packed with tons of strategies for solving proofs and a review of key concepts Geometry Workbook For Dummies is the ultimate study aid for students parents and anyone with an interest in the field

Essential Geometry with Analytic Geometry: A Self-Teaching Guide (Second Edition) Tim Hill, 2020-02-11 This no nonsense guide provides students and self learners with a clear and readable study of geometry's most important ideas Tim Hill's distraction free approach combines decades of tutoring experience with the proven methods of his Russian math teachers The result learn in a few days what conventional schools stretch into months Covers classical and analytic geometry Teaches general principles that can be applied to a wide variety of problems Avoids the mindless and excessive routine computations that characterize conventional textbooks Treats geometry as a logically coherent discipline not as a disjointed collection of techniques Restores proofs to their proper place to remove doubt convey insight and encourage precise logical thinking Omits digressions excessive formalities and repetitive exercises Includes problems with solutions that extend your knowledge rather than merely reinforce it Contents 1 Triangles 2 Circles 3 Cylinders 4 Cones 5 Spheres 6 Analytic Geometry 7 Solutions 8 Geometry Cheat Sheet

Geometry (Teacher Guide) Harold R. Jacobs, 2017-04-04 Jacobs best selling Geometry course has become a highly respected standard for teaching high school math in both top schools nationwide and within the homeschool market The Geometry Teacher Guide contains tests solutions to tests and a daily schedule The Geometry Teacher Guide Includes Convenient suggested daily schedule saving you time Tests chapter mid term final exam alternate test versions Test Solutions Practical 3 hole punched perforated pages for ease of use

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