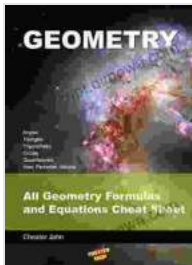


Geometry All Geometry Formulas And Equations Cheat Sheet

Geometry is a branch of mathematics that deals with the relationships between points, lines, angles, and shapes. It is a fundamental subject in many fields, including architecture, engineering, and computer science.



Geometry: All Geometry Formulas and Equations Cheat Sheet by Cheater John

★★★★★ 5 out of 5

Language	: English
File size	: 2934 KB
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Print length	: 4 pages
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X-Ray for textbooks	: Enabled



This cheat sheet provides a comprehensive list of all the geometry formulas and equations you need to know. It is a valuable resource for students, teachers, and professionals alike.

Table of Contents

- Basic Geometry
- Triangles
- Quadrilaterals

- Circles
- Three-Dimensional Geometry

Basic Geometry

The following formulas and equations are fundamental to geometry.

- Distance between two points: $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
- Slope of a line: $m = \frac{y_2 - y_1}{x_2 - x_1}$
- Equation of a line: $y = mx + b$
- Area of a rectangle: $A = lw$
- Area of a triangle: $A = \frac{1}{2}bh$
- Area of a circle: $A = \pi r^2$
- Volume of a cube: $V = s^3$
- Volume of a sphere: $V = \frac{4}{3}\pi r^3$

Triangles

Triangles are three-sided polygons. The following formulas and equations are specific to triangles.

- Perimeter of a triangle: $P = a + b + c$
- Area of a triangle: $A = \frac{1}{2}bh$
- Pythagorean theorem: $a^2 + b^2 = c^2$
- Sine rule: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

- Cosine rule: $c^2 = a^2 + b^2 - 2ab\cos C$

Quadrilaterals

Quadrilaterals are four-sided polygons. The following formulas and equations are specific to quadrilaterals.

- Perimeter of a quadrilateral: $P = a + b + c + d$
- Area of a rectangle: $A = lw$
- Area of a parallelogram: $A = bh$
- Area of a trapezoid: $A = \frac{1}{2}(b_1 + b_2)h$

Circles

Circles are closed curves that lie in a plane. The following formulas and equations are specific to circles.

- Circumference of a circle: $C = 2\pi r$
- Area of a circle: $A = \pi r^2$
- Equation of a circle: $(x - h)^2 + (y - k)^2 = r^2$

Three-Dimensional Geometry

Three-dimensional geometry is the study of shapes that exist in three dimensions. The following formulas and equations are specific to three-dimensional geometry.

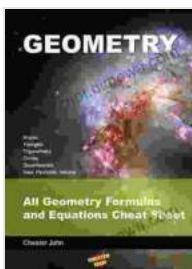
- Volume of a cube: $V = s^3$
- Volume of a prism: $V = Bh$

- Volume of a pyramid: $V = \frac{1}{3}Bh$
- Volume of a sphere: $V = \frac{4}{3}\pi r^3$
- Surface area of a cube: $A = 6s^2$
- Surface area of a prism: $A = 2(lw + lh + wh)$
- Surface area of a pyramid: $A = Bh + \frac{1}{2}PI$
- Surface area of a sphere: $A = 4\pi r^2$

This cheat sheet provides a comprehensive list of all the geometry formulas and equations you need to know. It is a valuable resource for students, teachers, and professionals alike.

If you are looking for a more in-depth review of geometry, I recommend checking out the following resources:

- Khan Academy Geometry
- IXL Geometry
- Education.com Geometry



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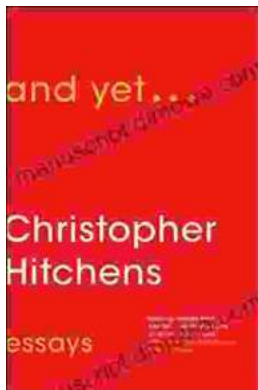
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