

GEOMETRIC FORMULAS

A table of formulas for geometry, related to area and perimeter of triangles, rectangles, circles, sectors, and volume of sphere, cone, cylinder are presented.



Right Triangle and Pythagoras's Theorem

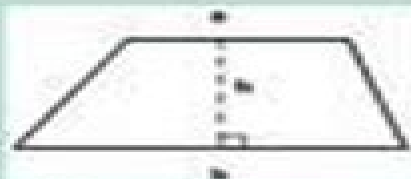
Pythagoras's theorem: The two sides a and b of a right triangle and the hypotenuse c are related by

$$a^2 + b^2 = c^2$$



Area of Parallelogram

$$\text{Area} = b \cdot h$$



Area of Trapezoid

$$\text{Area} = (1/2)(a + b) \cdot h$$



Area and Perimeter of Triangle

$$\text{Perimeter} = a + b + c$$

There are several formulas for the area.

If the base b and the corresponding height h are known, we use the formula

$$\text{Area} = (1/2) \cdot b \cdot h$$

If two sides and the angle between them are known, we use one of the formulas, depending on which side and which angle are known.

$$\text{Area} = (1/2) \cdot a \cdot b \cdot \sin C$$

$$\text{Area} = (1/2) \cdot a \cdot c \cdot \sin B$$

$$\text{Area} = (1/2) \cdot b \cdot c \cdot \sin A$$

If all three sides are known, we may use Heron's formula for the area.

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\text{where } s = (a + b + c)/2$$

Length and Area of a Circular Sector

$$\text{Arc length } s = r\theta$$

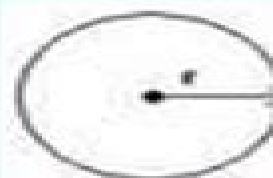
$$\text{Area} = (1/2) \cdot r^2 \cdot \theta$$



Area and Perimeter of Rectangle

$$\text{Perimeter} = 2L + 2W$$

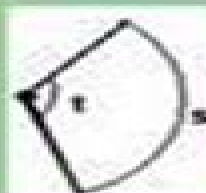
$$\text{Area} = L \cdot W$$



Circumference of a Circle and Area of a Circular Region

$$\text{Circumference} = 2\pi r$$

$$\text{Area} = \pi r^2$$



where θ is the central angle in RADIANS.

Geometric Formulas Speedy Study Guide

RD Boyd



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Table of Contents Geometric Formulas Speedy Study Guide

1. Understanding the eBook Geometric Formulas Speedy Study Guide
 - The Rise of Digital Reading Geometric Formulas Speedy Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometric Formulas Speedy Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometric Formulas Speedy Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometric Formulas Speedy Study Guide
 - Personalized Recommendations
 - Geometric Formulas Speedy Study Guide User Reviews and Ratings
 - Geometric Formulas Speedy Study Guide and Bestseller Lists
5. Accessing Geometric Formulas Speedy Study Guide Free and Paid eBooks

- Geometric Formulas Speedy Study Guide Public Domain eBooks
 - Geometric Formulas Speedy Study Guide eBook Subscription Services
 - Geometric Formulas Speedy Study Guide Budget-Friendly Options
6. Navigating Geometric Formulas Speedy Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometric Formulas Speedy Study Guide Compatibility with Devices
 - Geometric Formulas Speedy Study Guide Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometric Formulas Speedy Study Guide
 - Highlighting and Note-Taking Geometric Formulas Speedy Study Guide
 - Interactive Elements Geometric Formulas Speedy Study Guide
 8. Staying Engaged with Geometric Formulas Speedy Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometric Formulas Speedy Study Guide
 9. Balancing eBooks and Physical Books Geometric Formulas Speedy Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometric Formulas Speedy Study Guide
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Geometric Formulas Speedy Study Guide
 - Setting Reading Goals Geometric Formulas Speedy Study Guide
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Geometric Formulas Speedy Study Guide
 - Fact-Checking eBook Content of Geometric Formulas Speedy Study Guide
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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