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GEOMETRY

QUADRILATERALS

GENERAL QUADRILATERALS

Sum of the Interior Angles
$A + B + C + D = 360°$

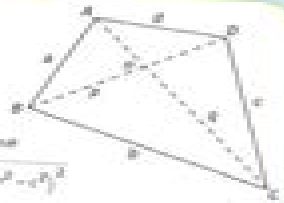
Perimeter $a + b + c + d$

Area

$\frac{1}{2}pq\sin\theta = \frac{1}{4}\sqrt{\left(2a^2q^2 + 2c^2q^2 - 2b^2q^2 - 2d^2q^2\right)\tan\theta}$

$= \frac{1}{4}\sqrt{4a^2q^2\tan^2\theta - \left(2a^2 + 2c^2 - 2b^2 - 2d^2\right)^2}$

Theorem: Diagonals of a quadrilateral with consecutive sides a, b, c, and d are perpendicular if and only if $a^2 + c^2 = b^2 + d^2$.



RECTANGLES

Interior Angles
$A = B = C = D = 90°$

Perimeter
$2(a + b)$

Area
ab

TRAPEZOIDS

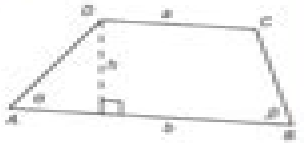
Sum of the Interior Angles
$A + B + C + D = 360°$, also

Perimeter

$a + b + h\left(\frac{1}{\sin\alpha} + \frac{1}{\sin\beta}\right)$

Area

$\frac{1}{2}h(a + b)$



PARALLELOGRAMS

Interior Angles
$A = C$, $B = D$
$A + B = 180°$

Interior Lengths

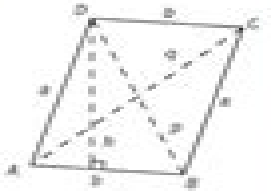
$h = a\sin A = a\sin B$

$p = \sqrt{a^2 + b^2 - 2ab\cos A}$

$q = \sqrt{a^2 + b^2 - 2ab\cos B}$

Perimeter
$2(a + b)$

Area
$bh = ab\sin A = ab\sin B$



CIRCLES & CONICS

Note: For the following figures, C = circumference and s = arc length.

CIRCLES

Diameter
$D = 2R$

Circumference
$2\pi R = \pi D$

Area
$\pi R^2 = \frac{1}{4}\pi D^2$

Sector & Segment of Circle

$\theta = 2\cos^{-1}\left(\frac{R-h}{R}\right) = 2\sin^{-1}\left(\frac{c}{2R}\right)$

$s = R\theta$

$h = R - p$

$c = 2R\sin\left(\frac{\theta}{2}\right) = 2h\tan\left(\frac{\theta}{2}\right)$

$h = R\cos\left(\frac{\theta}{2}\right) = \frac{1}{2}\sqrt{4R^2 - c^2}$

Area (sector) $= \frac{1}{2}Rs = \frac{1}{2}R^2\theta$

Area (segment) $= \frac{1}{2}R^2(\theta - \sin\theta)$

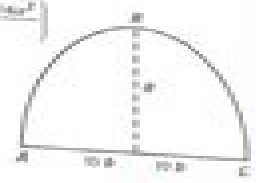
PARABOLAS (SEGMENT)

Arc Length

$\frac{1}{2}\sqrt{b^2 + 16a^2} + \frac{b^2}{8a}\ln\left(\frac{4a + \sqrt{b^2 + 16a^2}}{b}\right)$

Area

$\frac{2}{3}ab$



ELLIPSES

Diameter
$2a$ = major axis
$2b$ = minor axis

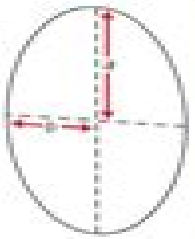
Area
πab

Perimeter

$s = \frac{\sqrt{a^2 - b^2}}{a}$

$P = 4a\int_0^{\frac{\pi}{2}}\sqrt{1 - s^2\sin^2\theta}\,d\theta$

$\approx 2\pi\sqrt{\frac{1}{2}\left(a^2 + b^2\right)}$ (approximately)



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Geometry Quick Reference Guide

Paul Tran

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Table of Contents Geometry Quick Reference Guide

1. Understanding the eBook Geometry Quick Reference Guide
    - The Rise of Digital Reading Geometry Quick Reference Guide
    - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Quick Reference 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 Geometry Quick Reference Guide
    - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Quick Reference Guide
    - Personalized Recommendations
    - Geometry Quick Reference Guide User Reviews and Ratings
    - Geometry Quick Reference Guide and Bestseller Lists

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