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**Plane and Solid Geometry by
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PLANE GEOMETRY

PLANE AREAS

Triangle



Given base b and altitude h
 $A = \frac{1}{2}bh$

Given two sides a and b and included angle C :
 $A = \frac{1}{2}ab \sin C$

Given three sides a , b , and c (Heron's Formula):
 $A = \sqrt{s(s-a)(s-b)(s-c)}$
 $s = \frac{a+b+c}{2}$

The area under this condition can also be solved by finding one angle using cosine law and apply the formula for two sides and included angle.

Given three angles A , B , and C and one side a :
 $A = \frac{a^2 \sin B \sin C}{2 \sin A}$

The area under this condition can also be solved by finding one side using sine law and apply the formula for two sides and included angle.

Rectangle

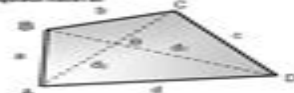


Area, $A = lw$
Perimeter, $P = 2(l + w)$
Diagonal, $d = \sqrt{l^2 + w^2}$

Square

Area, $A = s^2$
Perimeter, $P = 4s$
Diagonal, $d = s\sqrt{2}$

General quadrilateral



Given diagonals d_1 and d_2 and included angle θ :
 $A = \frac{1}{2}d_1 d_2 \sin \theta$

Given four sides a , b , c , d , and sum of two opposite angles:
 $A = \frac{1}{4} \sqrt{(s-a)(s-b)(s-c)(s-d) - abcd \cos^2 \theta}$
 $s = \frac{a+b+c+d}{2}$
 $\theta = \frac{\angle A + \angle C}{2}$ or $\theta = \frac{\angle B + \angle D}{2}$

Given four sides a , b , c , d , and two opposite angles B and D :
Divide the area into two triangles:
 $A = \frac{1}{2}ab \sin B + \frac{1}{2}cd \sin D$

Parallelogram



Given diagonals d_1 and d_2 and included angle θ :
 $A = \frac{1}{2}d_1 d_2 \sin \theta$

Given two sides a and b and one angle A :
 $A = ab \sin A$

Rhombus



Given diagonals d_1 and d_2 :
 $A = \frac{1}{2}d_1 d_2$
Given side a and one angle A :
 $A = a^2 \sin A$

Trapezoid



$A = \frac{b_1 + b_2}{2}h$

Cyclic Quadrilateral

A cyclic quadrilateral is a quadrilateral whose vertices lie on the circumference of a circle.



$\angle A + \angle C = 180^\circ$
 $\angle B + \angle D = 180^\circ$
Area = $\frac{1}{4} \sqrt{(s-a)(s-b)(s-c)(s-d)}$
 $s = \frac{a+b+c+d}{2}$

Ptolemy's theorem

"For any cyclic quadrilateral, the product of the diagonals equals the sum of the products of the opposite sides"
 $d_1 \cdot d_2 = ac + bd$

POLYGONS

There are two basic types of polygons, a convex and a concave polygon. A convex polygon is one in which no side, when extended, will pass inside the polygon, otherwise it is called a concave polygon. The following figure is a convex polygon.



Polygons are classified according to the number of sides. The following are some names of polygons.

- 3 sides = triangle
- 4 sides = quadrilateral or quadrilateral
- 5 sides = pentagon
- 6 sides = hexagon
- 7 sides = heptagon or septagon
- 8 sides = octagon
- 9 sides = nonagon

- 10 sides = decagon
- 11 sides = undecagon
- 12 sides = dodecagon
- 13 sides = tridecagon
- 14 sides = tetradecagon
- 15 sides = pentadecagon

Sum of interior angles

The sum of interior angles θ of a polygon of n sides is:

$$\text{Sum } \theta = (n-2) \cdot 180^\circ$$

Sum of exterior angles

The sum of exterior angles ϕ is equal to 360° .

$$\sum \phi = 360^\circ$$

Number of diagonals, D

The diagonal of a polygon is the line segment joining two non-adjacent sides. The number of diagonals is given by:

$$D = \frac{n(n-3)}{2}$$

Regular polygons

Polygons whose sides are equal are called equilateral polygons. Polygons with equal interior angles are called isoperimetric polygons. Polygons that are both equilateral and isoperimetric are called regular polygons. The area of a regular polygon can be found by considering one segment, which has the form of an isosceles triangle.



s = side subtended by the side from the center
 R = radius of circumscribing circle
 a = radius of inscribed circle, also called the apothem
 n = number of sides

$\theta = 360^\circ / n$
Area, $A = \frac{1}{2}R^2 \sin \theta = \frac{1}{2}nR^2 \sin \theta$
Perimeter, $P = ns$
Interior angle = $\frac{n-2}{n} \cdot 180^\circ$
Exterior angle = $360^\circ / n$

Circle

Circumference = $2\pi r = \pi d$
Area, $A = \pi r^2 = \frac{\pi}{4} D^2$

Sector of a circle

Arc $C = r \cdot \theta$ radians = $\frac{\pi R^2 \theta}{180^\circ}$
Area = $\frac{1}{2}r^2 \theta$ radians = $\frac{\pi R^2 \theta}{360^\circ}$
Area = $\frac{1}{2}C \cdot r$

Note: 1 radian is the angle θ such that $C = r$.

Segment of a circle

Area = $A_{\text{sector}} - A_{\text{triangle}}$
Area = $\frac{1}{2}r^2 \theta - \frac{1}{2}r^2 \sin \theta$
Area = $\frac{1}{2}r^2 (\theta - \sin \theta)$

θ = angle in radians

Area = $A_{\text{sector}} + A_{\text{triangle}}$
Area = $\frac{1}{2}r^2 \theta + \frac{1}{2}r^2 \sin \theta$
Area = $\frac{1}{2}r^2 (\theta + \sin \theta)$

Parabolic segment

Area = $\frac{2}{3}bh$

Ellipse

Area = πab

Perimeter, P

$$P = 2\pi \sqrt{\frac{a^2 + b^2}{2}}$$

RADIUS OF CIRCLES

Circle circumscribed about a triangle (Circumcircle)

A circle is circumscribed about a triangle if it passes through the vertices of the triangle.



$r = \frac{abc}{4A}$
 A = area of the triangle

Circle inscribed in a triangle (Incircle)

A circle is inscribed in a triangle if it is tangent to the three sides of the triangle.



$r = \frac{A}{s}$
 $s = \frac{1}{2}(a + b + c)$

Circles escribed about a triangle (Excircle)

A circle is escribed about a triangle if it is tangent to one side and to the prolongation of the other two sides. A triangle has three excircles.



$r_a = \frac{A}{s-a}$, $r_b = \frac{A}{s-b}$, $r_c = \frac{A}{s-c}$

Circle circumscribed about a quadrilateral

A circle is circumscribed about a quadrilateral if it passes through the vertices of the quadrilateral.



$r = \frac{\sqrt{(ab+cd)(ac+bd)(ad+bc)}}{4A_{\text{quadrilateral}}}$

$A_{\text{quadrilateral}} = \sqrt{(s-a)(s-b)(s-c)(s-d)}$
 $s = \frac{1}{2}(a+b+c+d)$

Circle inscribed in a quadrilateral

A circle is inscribed in a quadrilateral if it is tangent to the three sides of the quadrilateral.



$r = \frac{A}{s}$
 $s = \frac{1}{2}(a+b+c+d)$
 $A_{\text{quadrilateral}} = \sqrt{ab cd}$

SOLID GEOMETRY

POLYHEDRONS

A polyhedron is a closed solid whose faces are polygons.



PRISM

A prism is a polyhedron whose bases are equal polygons in parallel planes and whose sides are parallelograms. Prisms are classified according to their bases. Thus, a hexagonal prism is one whose base is a

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Table of Contents Plane And Solid Mensuration Student S Guide

1. Understanding the eBook Plane And Solid Mensuration Student S Guide
 - The Rise of Digital Reading Plane And Solid Mensuration Student S Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Plane And Solid Mensuration Student S 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 Plane And Solid Mensuration Student S Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Plane And Solid Mensuration Student S Guide
 - Personalized Recommendations
 - Plane And Solid Mensuration Student S Guide User Reviews and Ratings
 - Plane And Solid Mensuration Student S Guide and Bestseller Lists
5. Accessing Plane And Solid Mensuration Student S Guide Free and Paid eBooks
 - Plane And Solid Mensuration Student S Guide Public Domain eBooks
 - Plane And Solid Mensuration Student S Guide eBook Subscription Services
 - Plane And Solid Mensuration Student S Guide Budget-Friendly Options
6. Navigating Plane And Solid Mensuration Student S Guide eBook Formats

- ePub, PDF, MOBI, and More
- Plane And Solid Mensuration Student S Guide Compatibility with Devices
- Plane And Solid Mensuration Student S Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Plane And Solid Mensuration Student S Guide
 - Highlighting and Note-Taking Plane And Solid Mensuration Student S Guide
 - Interactive Elements Plane And Solid Mensuration Student S Guide
- 8. Staying Engaged with Plane And Solid Mensuration Student S Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Plane And Solid Mensuration Student S Guide
- 9. Balancing eBooks and Physical Books Plane And Solid Mensuration Student S Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Plane And Solid Mensuration Student S Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Plane And Solid Mensuration Student S Guide
 - Setting Reading Goals Plane And Solid Mensuration Student S Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Plane And Solid Mensuration Student S Guide
 - Fact-Checking eBook Content of Plane And Solid Mensuration Student S 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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page 12 and 13 meganiese tegnologie 12 nss doe mod page 14 and 15 meganiese tegnologie 14 nss doe mod page 16 and 17
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