

ASIAN DEVELOPMENT FOUNDATION COLLEGE

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Part of: Plane and Solid Geometry by RTFVerterra © October 2003

PLANE GEOMETRY

PLANE AREAS



Given base b and altitude h A = 35 ton

Given two sides a and b and included A = % ab sin 0

Given three sides a, b, and c: (Hero's

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:

The area under this condition can also be solved by finding one side using size has and apply the formula for two sides and included ancies.

Rectangle

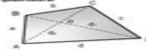


Penneter, P = 2(a+b) Olagonal, d = $\sqrt{a^2 + b^2}$

Area. A. e. ar Perimeter, P = 4a Diagonal, d = a√2



General quadrilateral



Given diagonals di and di and included ample of

A = 16.4 = 46 = 10m 0

Given four sides a, b, c, d, and sum of two opposite angles:

Given four sides a, b, c, d, and two opposite angles B and D: Divide the area into two triangles.

A = Nusb sin B + Nusb sin D

Parallelogra



n diagonals di and di and included angle 6: A = N d = d = sin 0

Given two sides a and b and one angle A: A. w. safe- sain. III.



Given diagonals d. and du A = N.d. = dr

Given side a and one angle A:



Cyclic Quadritateral



2A+2C+180* ∠B + ∠D = 180° Area = \$\int (8 - 4004 - 1006 - 4004 - 40 b+2+d-4 +e

Planterny's theorem

For any cyclic quadristers, the product of the diagonals equals the sum of the products of the

directly made and

POLYGONS.

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



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

triangle or quadristensi pentagon hexagon heptagon or septagon

Sum of interior angles. The sum of interior angles \oplus of a polygon of n sides is: $Sum, X0 = (n-2) = 180^{\circ}$

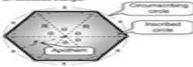
Sum of exterior angles. The sum of exterior angles (5 is equal to 518 = 3601

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:

$$\Phi = \frac{\pi}{2}(n-3).$$

Regular polygons

Polygons whose sides are equal are called equilateral polygons. Polygons with equal interior angles are called equiangular polygons, required and a require polygon can be found by considering one segment, which has the form of an indication triangle.



angle subtended by the side from the

R = radius of circumscribing circle r = radius of inscribed circle, also called the

Area, A = 56 RF sin 0 ~ n = 56 x r ~ n Perimeter, P = x = x

Interior angle = n-2 = 1801 Exterior angle = 360" / n

Circumference + 2n r + nD Ama, A = x = = = = 00



Arc C = r = thates = 180*

Arms + % r* Guess = $\frac{m^2 0}{360^+}$



Note: 1 radian is the angle if such that C = x.

Segment of a circle

Area = A_{coro} - A_{corpo} Area = 55 r² 0. - 55 r² sin 0 Area = 55 r² (0. - sin 0)

to = angle in radians

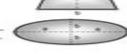
Area = A_{coro} + A_{corp} Area = ½ 1' o_c + ½ 1' sin 0 Area = ½ 1' o_c + sin 0)

Parabolic segment

Area + 2 tm

Eligne





=

RADIUS OF CIRCLES

Circle circumscribed about a triangle

moorbed about a triangle if it passes through the vertices of the trungle



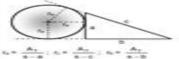
As in area of the thangle

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



Circles recribed about a triangle

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 escribed circles.



Circle circumscribed abo

A circle is Dedroamunical about a guadriateral if it ansies through he vertices of he quadristen



F = *Cab + odicac + bd(cad + bc)

a = 16/a + b + c + d)

Circle incribed in a quadrilateral

A concise in inscribed in a quadrilateral if it is tangent to the tr sides of the ---B = 7668 + B + C + 40

SOLID GEOMETRY

Anne + Johns

A polyhedron is a closed solid whose faces are





polygone in perallel planes and whose sides are parallelograms. probleograms, transferd according to their bisses, hus, a hexagonal prism is one whose base is a

Plane And Solid Mensuration Student S Guide

Mark Steyvers

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