



QUADRILATERALS

GENERAL QUADRILATERALS

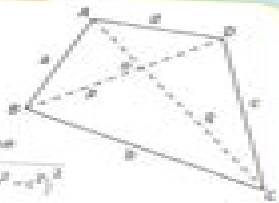
Sum of the Interior Angles
 $A + B + C + D = 360^\circ$

Perimeter
 $a + b + c + d$

Area

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

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

$A = B = C = D = 90^\circ$

Perimeter

$2(a + b)$

Area

ab



TRAPEZOID

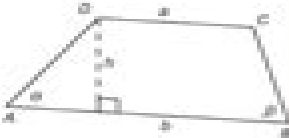
Sum of the Interior Angles
 $A + B + C + D = 360^\circ$, etc.

Perimeter

$$a + b + h \left(\frac{1}{\sin \theta} + \frac{1}{\sin \phi} \right)$$

Area

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



PARALLELOGRAM

Interior Angles

$A = C, B = D$

$A + B = 180^\circ$

Interior Lengths

$$h = a \sin A = a \sin C$$

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

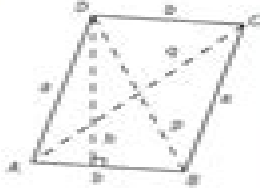
$$q = \sqrt{a^2 + b^2 - 2ab \cos B}$$

Perimeter

$2(a + b)$

Area

$$ab \sin A = ab \sin C = ab \sin B$$



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

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

$s = R\theta$

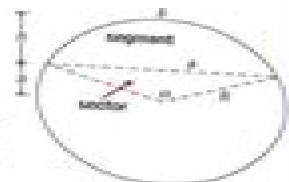
$h = R - r$

$$r = 2R \sin \left(\frac{\theta}{2} \right) = 2r \sin \left(\frac{\theta}{2} \right)$$

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

$$\text{Area (Sector)} = \frac{1}{2} R^2 \theta = \frac{1}{2} s R$$

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



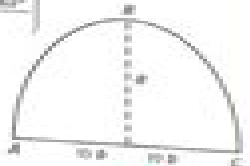
PARABOLAS (CONICS)

Arc Length

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

Area

$\frac{2}{3} ab$



ELLIPSES

Diameter

$2a$ = major axis

$2b$ = minor axis

Area

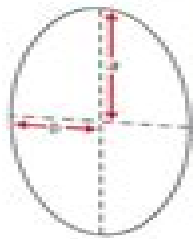
πab

Perimeter

$$s = \frac{1}{2} \pi (a + b)$$

$$P = 4b \int_0^{\frac{\pi}{2}} \sqrt{1 - e^2 \sin^2 \theta} d\theta$$

$$= 2\pi \sqrt{\frac{1}{2} (a^2 + b^2)} \quad (\text{Approximately})$$



Geometry Quick Reference Guide

Ashim Datta, Vineet Rakesh



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