



## QUADRILATERALS

### GENERAL QUADRILATERALS

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

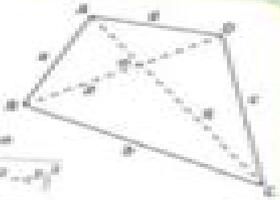
Perimeter  $a + b + c + d$

Area

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

$$= \frac{1}{4} \text{diagonal}^2 \left( \frac{1}{2} \sin \theta + \frac{1}{2} \sin \theta \right)$$

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



### RECTANGLES

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

Perimeter  
 $2(a + b)$

Area  
 $ab$



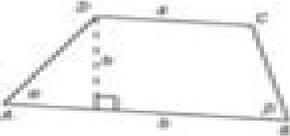
### TRAPEZIUMS

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

Perimeter  
 $a + b + \left( \frac{1}{2}(a+b) \right) + \left( \frac{1}{2}(a+b) \right)$

Area

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



### PARALLELOGRAMS

Interior Angles  
 $A + C, B + D$   
 $A + B = 180^\circ$

Interior Lengths  
 $a = c, b = d$

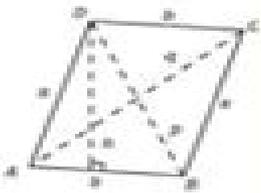
$$d^2 = a^2 + b^2 - 2ab \cos C$$

$$b^2 = a^2 + d^2 - 2ad \cos C$$

Perimeter  
 $2(a + b)$

Area

$$ab \sin C = ab \sin D = ab \sin A$$



## CIRCLES & CONICS

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

### CIRCLES

Diameter  
 $2r = 2a$

Circumference  
 $2\pi r = \pi d$

Area

$$\pi r^2 = \frac{1}{2} \pi d^2$$

Sector & Segment of Circle

$$A = 2\pi r^2 \left( \frac{\theta}{360} \right) = 2\pi r^2 \left( \frac{s}{2\pi r} \right)$$

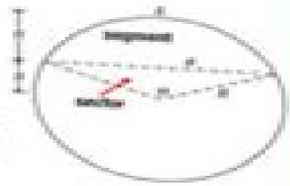
$$s = r\theta$$

$$A = \frac{1}{2} r^2 \theta$$

$$A = \frac{1}{2} r^2 \left( \frac{s}{r} \right) = \frac{1}{2} r s$$

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

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



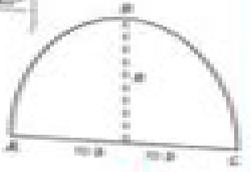
### PARABOLAS (CONICS)

Arc Length

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

Area

$$\frac{1}{2} ab$$



### ELLIPSES

Diameter

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

Area

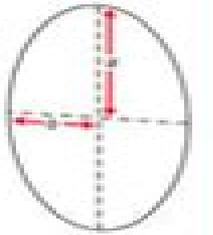
$$\pi ab$$

Perimeter

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

$$P = \pi \left[ 2.6714 (a^2 + b^2) \right]^{0.5}$$

$$= 2\pi \left[ \frac{1}{2} (a^2 + b^2) \right]^{0.5} \text{ (Approximately)}$$



# Geometry Quick Reference Guide

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