

# GEOMETRY



## QUADRILATERALS

### GENERAL QUADRILATERALS

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

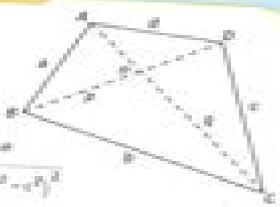
Perimeter  $a + b + c + d$

Area

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

$$= \frac{1}{4} \sqrt{4a^2b^2 - (a^2 + b^2 - c^2 - d^2)^2}$$

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

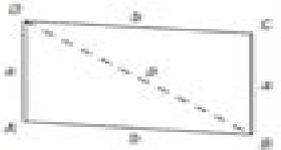


### RECTANGLES

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

Perimeter  
 $2(a + b)$

Area  
 $ab$



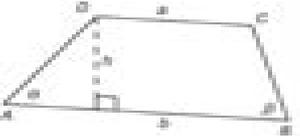
### TRAPEZOID

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

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

Area

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



### PARALLELOGRAM

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

Interior Lengths

$$h = a \sin \theta = a \cos \phi$$

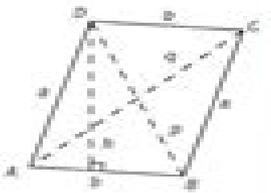
$$p = \sqrt{a^2 + b^2 - 2ab \cos A}$$

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

Perimeter  
 $2(a + b)$

Area

$$ab \sin \theta = ab \cos \phi$$



## CIRCLES & CONICS

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

### CIRCLE

Diameter  
 $D = 2R$

Circumference  
 $2\pi R = \pi D$

Area

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

Sector & Segment of Circle

$$A = 2R^2 \sin^{-1} \left( \frac{h}{R} \right) = 2R^2 \sin^{-1} \left( \frac{s}{2R} \right)$$

$$a = 2R\theta$$

$$b = R - R \cos \theta$$

$$A = 2R^2 \sin \left( \frac{\theta}{2} \right) = 2R^2 \sin \left( \frac{s}{2R} \right)$$

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

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

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



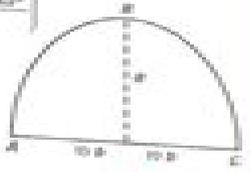
### PARABOLA (CONIC)

Arc Length

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

Area

$$\frac{2}{3} ab$$



### ELLIPSE

Diameter

$2a$  = major axis

$2b$  = minor axis

Area

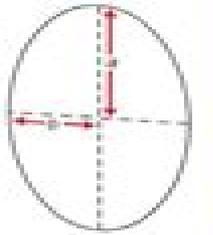
$\pi ab$

Perimeter

$$A = \frac{\pi^2}{4} \frac{a^2 + b^2}{2}$$

$$P = 4a \left[ \frac{1}{2} \sqrt{1 - e^2} + e^2 \sin^2 \frac{\pi}{4} \right]$$

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



# Geometry Quick Reference Guide

**Tao Wei**



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