



## QUADRILATERALS

### GENERAL QUADRILATERALS

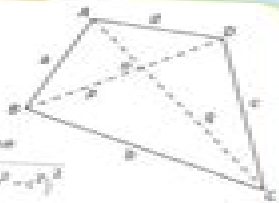
Sum of the Interior Angles  
 $A + B + C + D = 360^\circ$

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

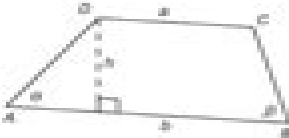
Sum of the Interior Angles  
 $A + B + C + D = 360^\circ$ , etc.

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

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

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

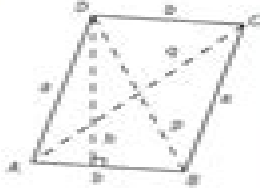
$$q = \sqrt{a^2 + b^2 - 2ab \cos B}$$

Perimeter

$2(a + b)$

Area

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



## 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

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

$s = R\theta$

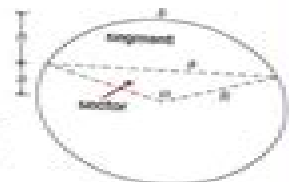
$b = R - r$

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

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

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

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



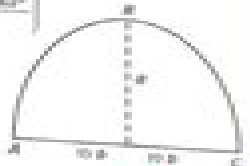
### PARABOLAS (CONICS)

Arc Length

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

Area

$\frac{2}{3} ab$



### ELLIPSES

Diameter

$2a$  = major axis

$2b$  = minor axis

Area

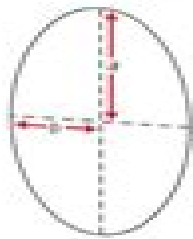
$\pi ab$

Perimeter

$$s = \frac{4a^2}{\pi} \left( \frac{\pi^2}{16} - \frac{b^2}{4a^2} \right)$$

$$P = 4a \left( \frac{\pi}{2} - \sqrt{1 - e^2} \sin^2 \frac{\pi}{2} \right)$$

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



# Geometry Quick Reference Guide

**R Barnett**



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web feb 14 2022 this is a quadratic equation rewrite it in standard form solve the equation using the quadratic formula identify the  $a$ ,  $b$ ,  $c$  values write the quadratic formula then substitute in the values of  $a$ ,  $b$ ,  $c$  simplify figure 9 5 13 rewrite to show two solutions approximate the answers using a calculator we eliminate the negative

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web quadratic equations solving word problems by factoring question 1c a rectangular building is to be placed on a lot that measures 30 m by 40 m the building must be placed in the lot so that the width of the lawn is the same on all four sides of the building

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web problem 9 solve the quadratic equation using the quadratic formula left  $2x - 1$  right  $2$  large  $x$  over  $3$   $2x - 1$   $2$   $3x$  answer problem 10 solve the quadratic equation using the quadratic formula left  $2x - 1$  right left  $x + 4$  right  $x^2 - 3x$   $2x - 1$   $x + 4$   $x^2 - 3x$  answer