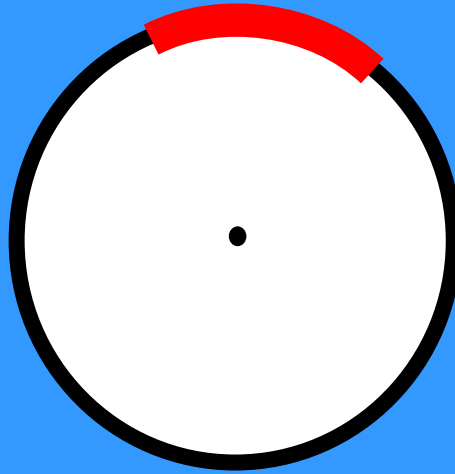


Radius



Arc



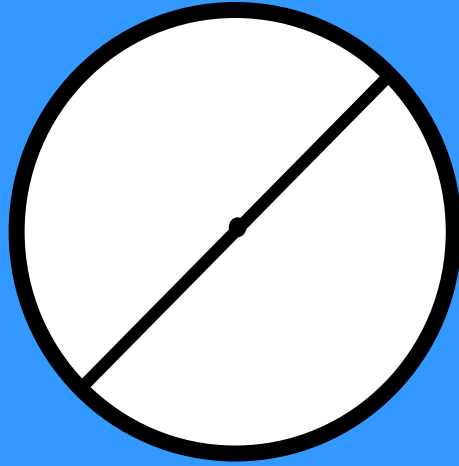
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Diameter

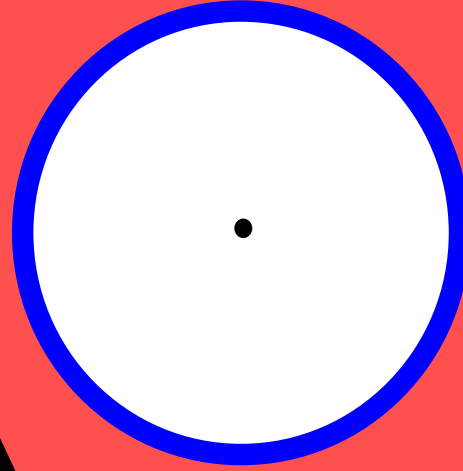


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Circumference

$$C = \pi d$$



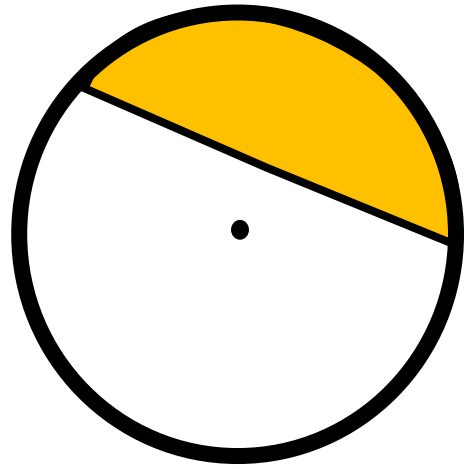
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# Sector



# Segment

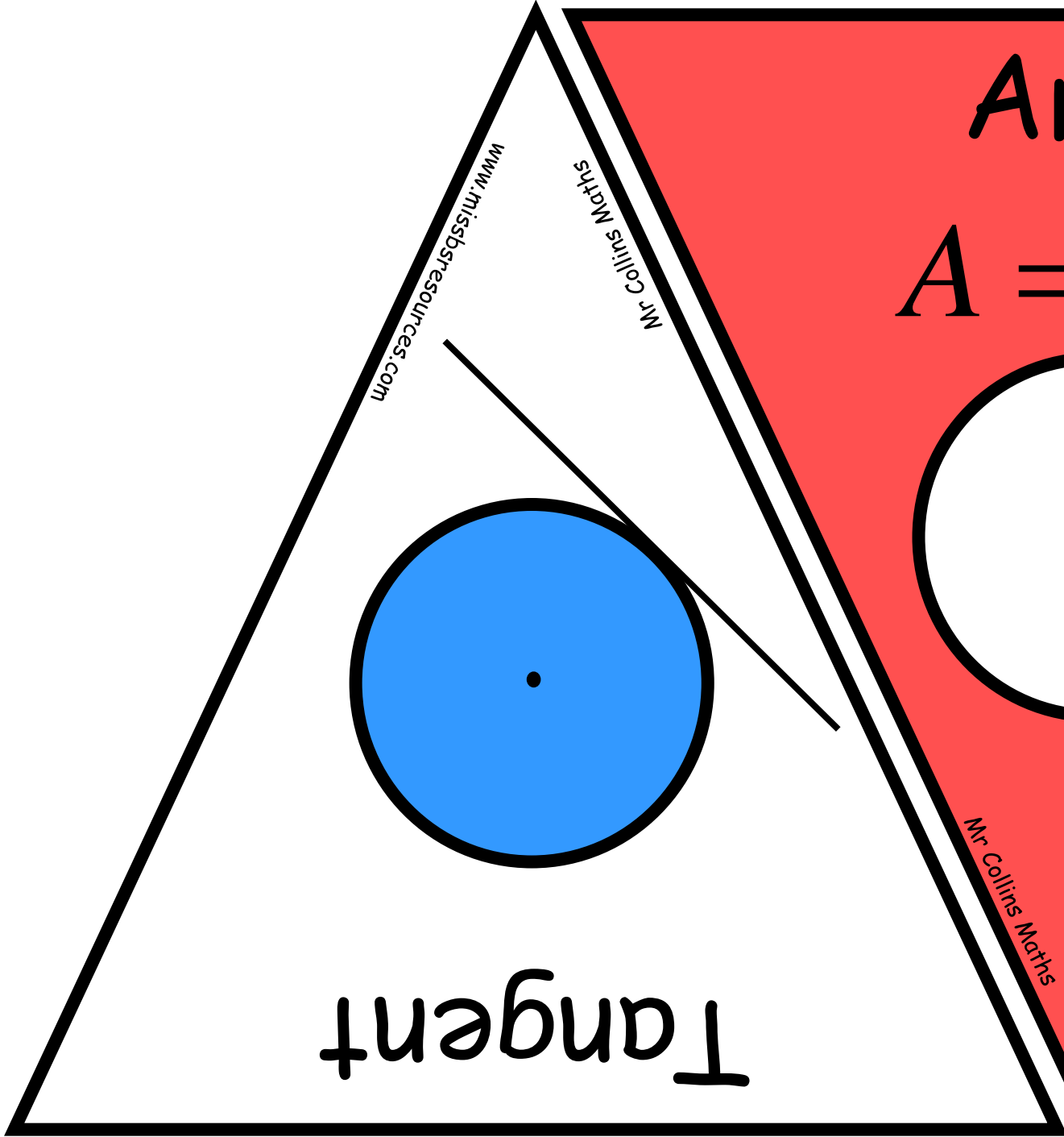


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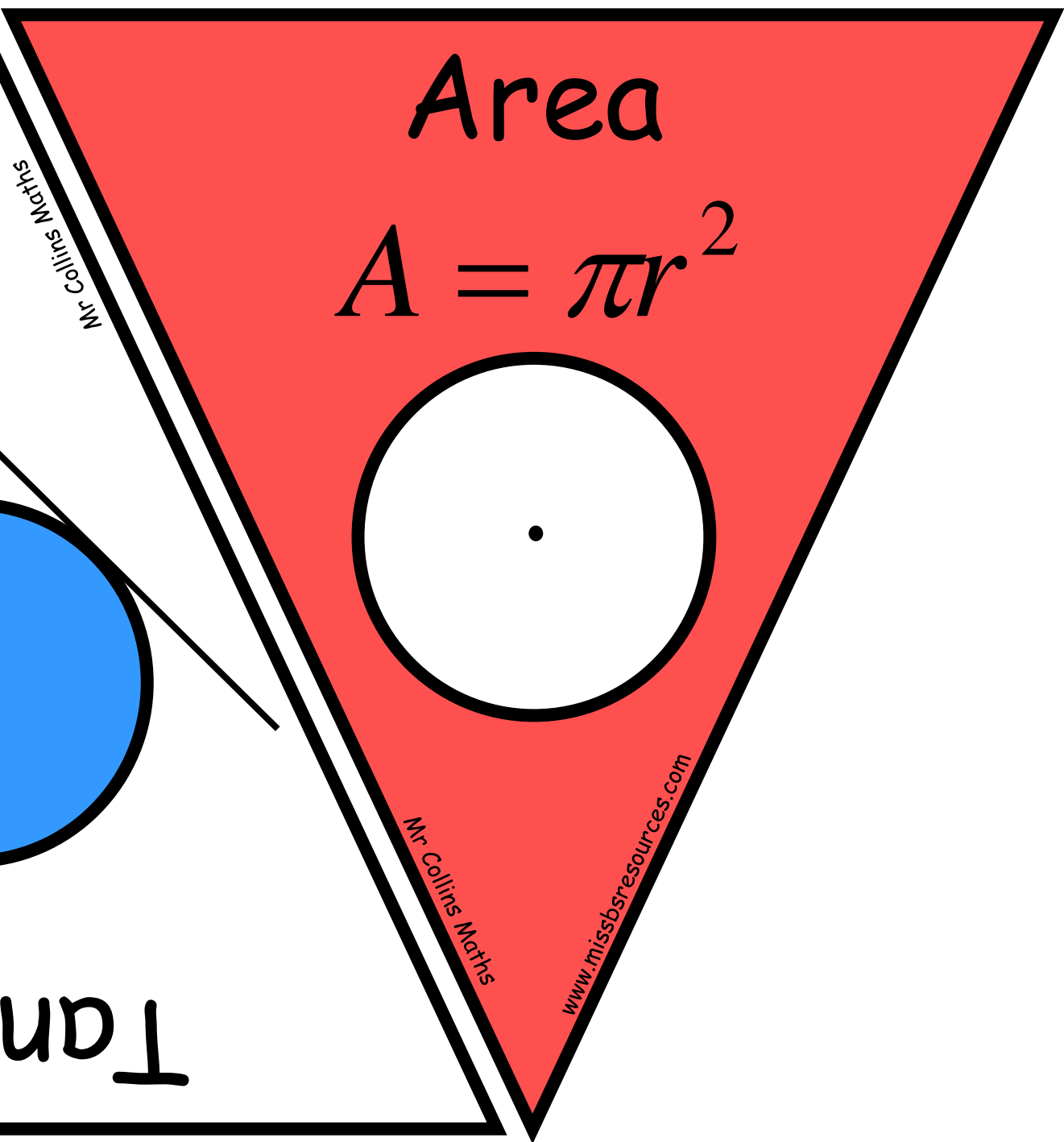
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Tangent

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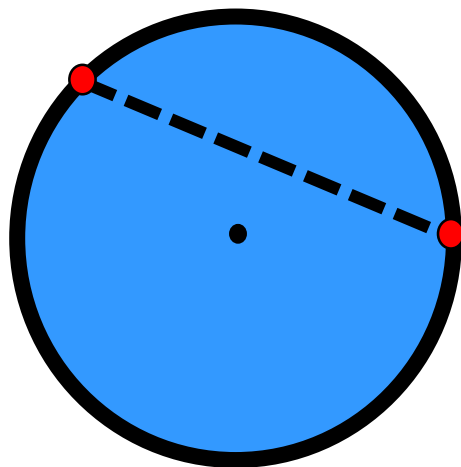
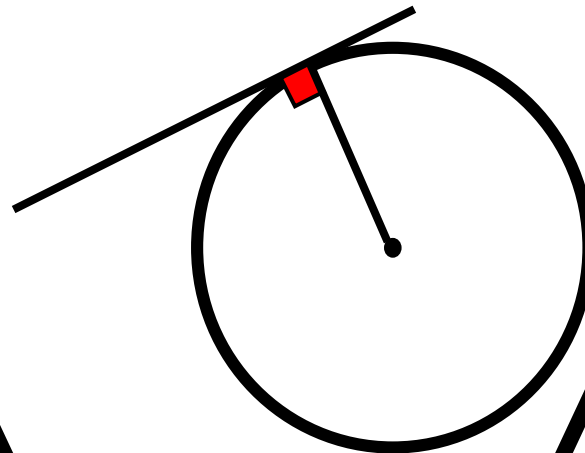
Area

$$A = \pi r^2$$

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Tangent meets a  
Radius at  $90^\circ$



Chord

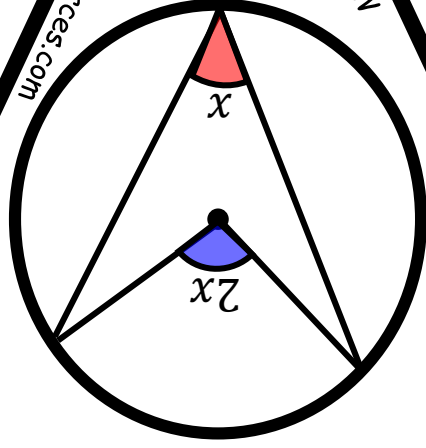
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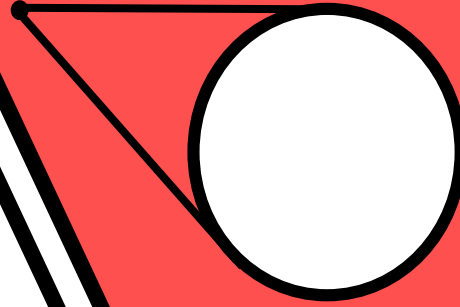
Angle at the centre is  
double the  
angle at the  
circumference



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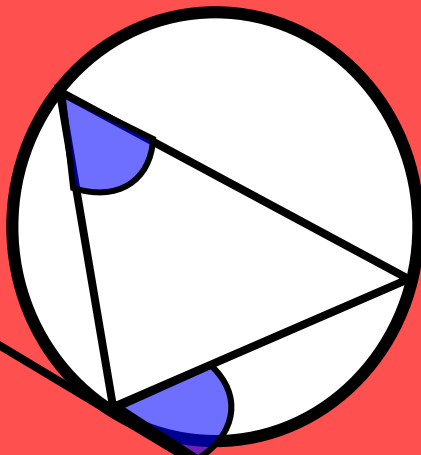
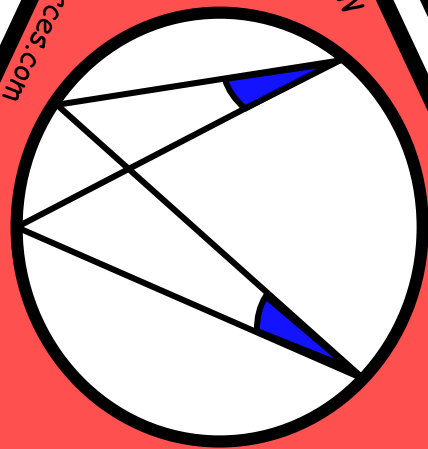
Tangents drawn  
from the same  
point are equal  
in length



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# Alternate Segment Theorem



Angles in the  
same segment  
are equal

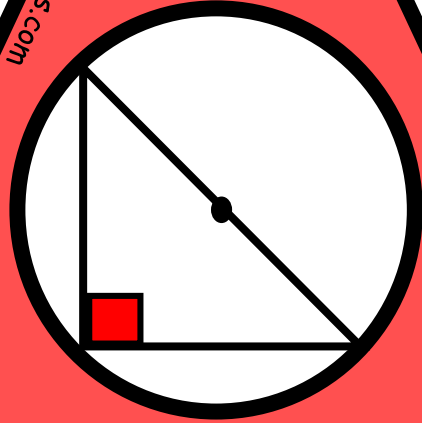
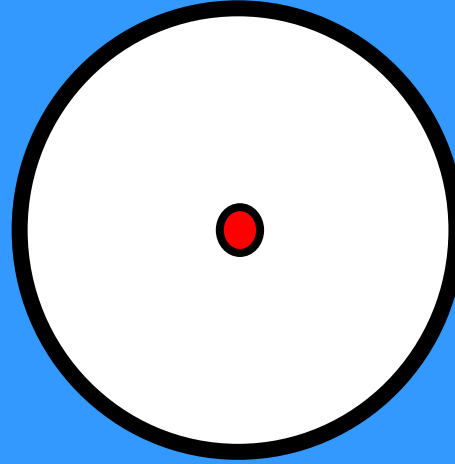
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Centre



Angle in a  
semi-circle is  
 $90^\circ$

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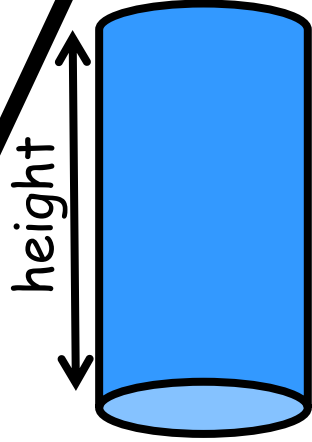
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# Volume of a

Cylinder

$$\pi r^2 \times \text{height}$$



# Equation of a Circle

$$(x - a)^2 + (y - b)^2 = r^2$$

$r$  = radius of  
the circle  
Centre  $(a, b)$

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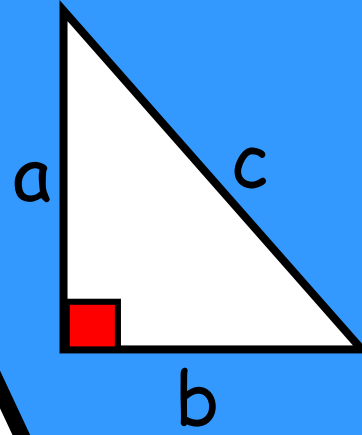
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# Pythagoras' Theorem

$$a^2 + b^2 = c^2$$



# Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2a

when

$$ax^2 + bx + c = 0$$

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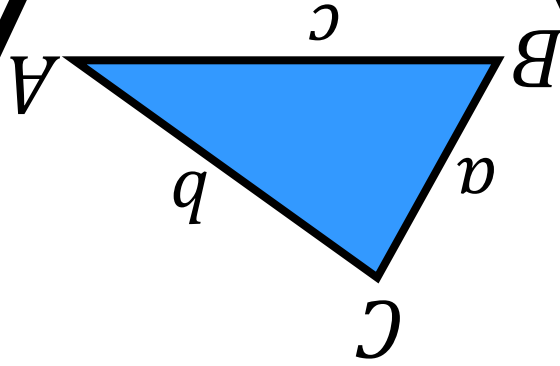
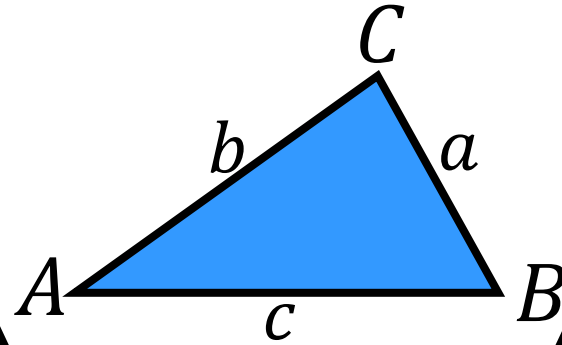
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# Sine Rule

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$



# Cosine Rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

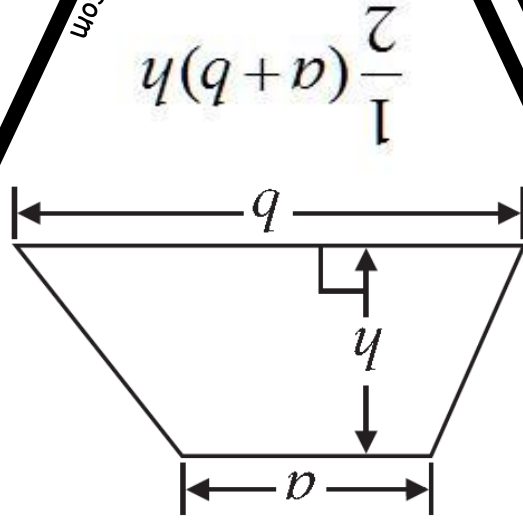
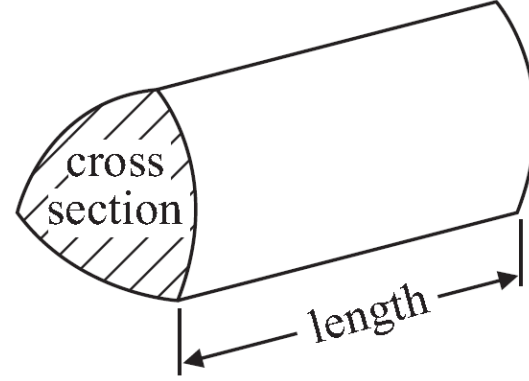
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# Volume of a Prism



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

Area of a Trapezium

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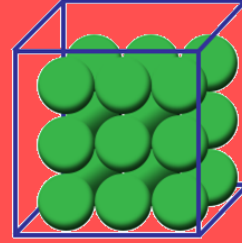
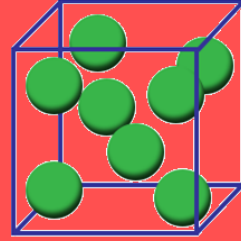
$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$



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$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$



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# Exterior Angle of a Regular Polygon

$$= \frac{360^\circ}{n}$$

$n$  is the number of sides

$\Sigma$  Interior Angles of a Regular Polygon =  $(n - 2) \times 180^\circ$

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