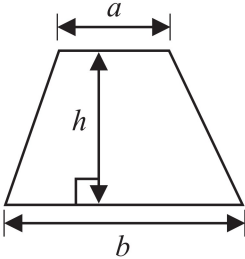
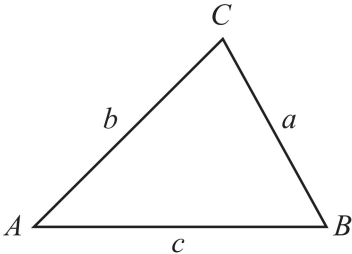
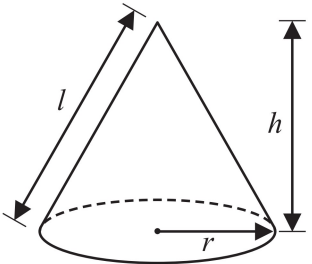
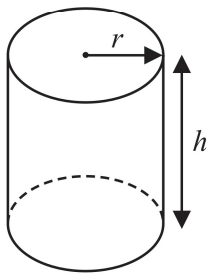
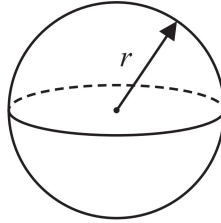


International GCSE Mathematics

Formulae sheet – Higher Tier

<p><b>Arithmetic series</b></p> <p>Sum to <math>n</math> terms, <math>S_n = \frac{n}{2} [2a + (n - 1)d]</math></p>	<p><b>Area of trapezium</b> = <math>\frac{1}{2}(a + b)h</math></p> 
<p><b>The quadratic equation</b></p> <p>The solutions of <math>ax^2 + bx + c = 0</math> where <math>a \neq 0</math> are given by:</p> $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$	<p><b>In any triangle <math>ABC</math></b></p> <p><b>Sine Rule</b> <math>\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}</math></p> <p><b>Cosine Rule</b> <math>a^2 = b^2 + c^2 - 2bc \cos A</math></p> <p><b>Area of triangle</b> = <math>\frac{1}{2}ab \sin C</math></p>
<p><b>Trigonometry</b></p> 	<p><b>Volume of cone</b> = <math>\frac{1}{3}\pi r^2 h</math></p> <p><b>Curved surface area of cone</b> = <math>\pi r l</math></p> 
<p><b>Volume of cylinder</b> = <math>\pi r^2 h</math></p> <p><b>Curved surface area of cylinder</b> = <math>2\pi r h</math></p> 	<p><b>Volume of sphere</b> = <math>\frac{4}{3}\pi r^3</math></p> <p><b>Surface area of sphere</b> = <math>4\pi r^2</math></p> 

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