

# GCSE Mathematics 1MA0

## Formulae: Higher Tier

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Volume of prism = area of cross section  $\times$  length



Volume of sphere =  $\frac{4}{3} \pi r^3$

Surface area of sphere =  $4\pi r^2$



In any triangle  $ABC$

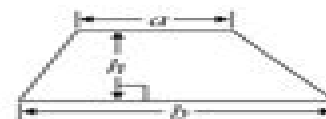


Sine Rule  $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

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

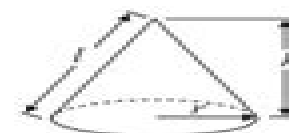
Area of triangle =  $\frac{1}{2} ab \sin C$

Area of trapezium =  $\frac{1}{2} (a + b)h$



Volume of cone =  $\frac{1}{3} \pi r^2 h$

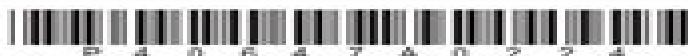
Curved surface area of cone =  $\pi r l$



The Quadratic Equation

The solutions of  $ax^2 + bx + c = 0$   
where  $a \neq 0$ , are given by

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



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