GCSE Mathematics (Linear) 1380

Formulae: Higher Tier

You must not write on this formulae page. Anything you write on this formulae page will gain NO credit.

Volume of a prism = area of cross section × length



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

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

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





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 $=\frac{1}{2}ab\sin C$

The Quadratic Equation

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

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