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These are the formulae that will be given to help you to answer the **IGCSE 0606 Additional Maths** Questions. However, more important is that you know how to apply those formulaes to solve your questions. Basically there are divided into 2 categories:

1. Algebra

Quadratic Equation

For equation
$$ax^2 + bx + c = 0$$
,
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Binomial Theorem

$$(a+b)^n=a^n+\left(\frac{n}{1}\right)a^{n-1}b+\left(\frac{n}{2}\right)a^{n-2}b^2+\ldots+\left(\frac{n}{r}\right)a^{n-r}b^r+\ldots+b^n\,,$$
 where n is a positive integer and $\left(\frac{n}{r}\right)=\frac{n!}{(n-r)!r!}$

2. Trigonometry

Identities

$$\sin^2 A + \cos^2 A = 1$$
$$\sec^2 A = \tan^2 A + 1$$
$$\csc^2 A = \cot^2 A + 1$$

Formulae for $\triangle ABC$

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

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

$$\Delta = \frac{1}{2}bc\sin A$$