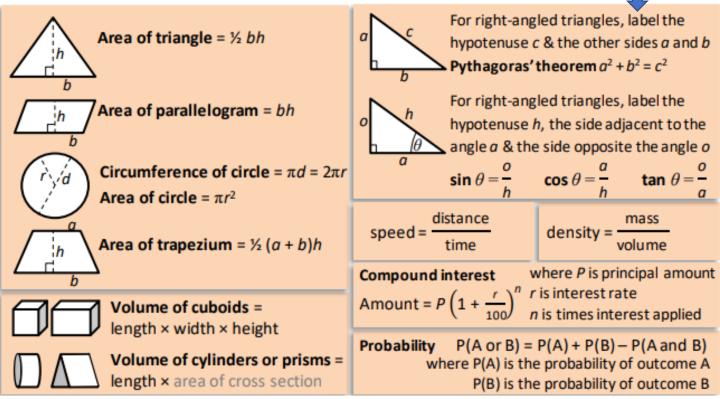


Exam Formulae

Formulae that you need to know...

Everyone needs to know.



Higher only. In any triangle ABC where a, b and c are the lengths of the sides $A = \frac{b}{c}$ Area of triangle = ½ ab sinC Sine rule $\frac{a}{sin A} = \frac{b}{sin B} = \frac{c}{sin C}$

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

The quadratic formula

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

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

Probability

P(A and B) = P(A given B) P(B)

where P(A) is the probability of outcome A P(B) is the probability of outcome B