AQA A Level Maths: formulae and identities you need to know

Coordinate geometry

A straight line, gradient m, through (x_1, y_1) has equation $y - y_1 = m(x - x_1)$.

Straight lines with gradient m_1 and m_2 are perpendicular when $m_1 m_2 = -1$.

Integration

Function	Integral
$\sin kx$	$-\frac{1}{k}\cos(kx) + c$
$\cos kx$	$\frac{1}{k}\sin(kx) + c$
e^{kx}	$\frac{1}{k}e^{kx} + c$
$\frac{1}{x}$	$\ln|x| + c, x \neq 0$

Reverse chain rule:

$$\int f'(g(x))g'(x) = f(g(x)) + c$$

Mensuration

For a circle radius r and diameter d:

$C = 2\pi r = \pi d$

$A = \pi r^2$

For a sector radius r, angle θ (in radians) and arc length s:

$s = r\theta$

$A = \frac{1}{2}r^2\theta$

For a trapezium with parallel sides a and b and perpendicular length between the two parallel sides h,

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

Mechanics

weight = mg

$F \leq \mu R$

$F = ma$

$v = \frac{dr}{dt}$

$r = \int v \, dt$

$a = \frac{dv}{dt} = \frac{d^2 r}{dt^2}$

$v = \int a \, dt$

Laws of indices

$a^x a^y = a^{x+y}$

$\frac{a^x}{a^y} = a^{x-y}$

$(a^x)^y = a^{xy}$

Differentiation

Function, $f(x)$	Derivative, $f'(x)$
$\sin kx$	$k\cos(kx)$
$\cos kx$	$-k\sin(kx)$
e^{kx}	ke^{kx}
$\ln x$	$\frac{1}{x}$

Chain rule:

If $y = f(g(x))$, $\frac{dy}{dx} = f'(g(x))g'(x)$

$\frac{dy}{dx} = \frac{dy}{du} \times \frac{du}{dx}$

Product rule:

The derivative of $y = f(x)g(x) = uv$.

$\frac{dy}{dx} = f'(x)g(x) + f(x)g'(x)$.

$\frac{dy}{dx} = u\frac{dv}{dx} \times v\frac{du}{dx}$

Trigonometry

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

$\tan x = \frac{\sin x}{\cos x}$

$\sec x = \frac{1}{\cos x}$

$\csc x = \frac{1}{\sin x}$

$\cot x = \frac{1}{\tan x}$

$\cos^2 x + \sin^2 x \equiv 1$

$\sec^2 x \equiv 1 + \tan^2 x$

$\csc^2 x \equiv 1 + \cot^2 x$

$\sin 2x \equiv 2\sin x \cos x$

$\cos 2x \equiv \cos^2 x - \sin^2 x$

$\tan 2x \equiv \frac{2\tan x}{1 - \tan^2 x}$

Laws of logarithms

$x = a^n \Leftrightarrow n = \log_a x$

$\log_a x + \log_a y \equiv \log_a(xy)$

$\log_a x - \log_a y \equiv \log_a\left(\frac{x}{y}\right)$

$k\log_a x \equiv \log_a(x^k)$

Sequences

Arithmetic n^{th} term:

$u_n = a + (n - 1)d$

Geometric n^{th} term:

$u_n = ar^{n-1}$

Vectors

$|x\mathbf{i} + y\mathbf{j} + z\mathbf{k}| = \sqrt{x^2 + y^2 + z^2}$

Statistics

The mean of a set of data: $\bar{x} = \frac{\sum x}{n} = \frac{\sum fx}{\sum f}$ The standard Normal variable: $Z = \frac{x - \mu}{\sigma}$ where $X \sim N(\mu, \sigma^2)$

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Keith Pledger

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Table of Contents Edexcel A Level Maths Formula Let C12 And C34

1. Understanding the eBook Edexcel A Level Maths Formula Let C12 And C34
    - The Rise of Digital Reading Edexcel A Level Maths Formula Let C12 And C34
    - Advantages of eBooks Over Traditional Books
2. Identifying Edexcel A Level Maths Formula Let C12 And C34
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Edexcel A Level Maths Formula Let C12 And C34
    - User-Friendly Interface
4. Exploring eBook Recommendations from Edexcel A Level Maths Formula Let C12 And C34
    - Personalized Recommendations
    - Edexcel A Level Maths Formula Let C12 And C34 User Reviews and Ratings
    - Edexcel A Level Maths Formula Let C12 And C34 and Bestseller Lists

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