OCR A Level Maths Formula Mat Formulae and Identities You Need to Know

Laws of Indices

$a^m a^n = a^{m+n}$

$\dfrac{a^m}{a^n} = a^{m-n}$

$(a^m)^n = a^{mn}$

Laws of Logarithms

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

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

$\log_a x - \log_a y = \log_a\left(\dfrac{x}{y}\right)$

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

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 $m_1 m_2 = -1$.

Sequences

Arithmetic progression:
$u_n = a + (n-1)d$

Geometric progression:
$u_n = ar^{n-1}$

Trigonometry

Sine rule: $\dfrac{a}{\sin A} = \dfrac{b}{\sin B} = \dfrac{c}{\sin C}$

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

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

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

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

$\operatorname{cosec} x = \dfrac{1}{\sin x}$

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

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

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

$\operatorname{cosec}^2 x \equiv 1 + \cot^2 x$

$\sin 2x = 2\sin x \cos x$

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

$\tan 2x = \dfrac{2\tan x}{1 - \tan^2 x}$

Mechanics

weight $= mg$

$F \leq \mu R$

$F = ma$

$v = \dfrac{ds}{dt}$ $\qquad a = \dfrac{dv}{dt} = \dfrac{d^2 s}{dt^2}$

$v = \int a\, dt$ $\qquad s = \int v\, dt$

Perimeter, Area and Volume

For a circle radius r and diameter d:

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

$A = \pi r^2$

For a trapezium with parallel sides a and b and height h:

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

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

$s = r\theta$

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

Integration

Function	Integral
$\sin bx$	$-\dfrac{1}{b}\cos(bx) + c$
$\cos bx$	$\dfrac{1}{b}\sin(bx) + c$
e^{bx}	$\dfrac{1}{b}e^{bx} + c$
$\dfrac{1}{x}$	$\ln|x| + c,\ x \neq 0$

Reverse Chain rule:
$\int f'(g(x))g'(x)\, dx = f(g(x)) + c$

Differentiation

Function	Derivative
$\sin bx$	$b\cos(bx)$
$\cos bx$	$-b\sin(bx)$
e^{bx}	be^{bx}
$\ln x$	$\dfrac{1}{x}$

Chain rule:
If $y = f(g(x))$, $\dfrac{dy}{dx} = f'(g(x))g'(x)$

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

Product rule:
The derivative of $y = f(x)g(x)$:
$\dfrac{dy}{dx} = f'(x)g(x) + f(x)g'(x)$

$\dfrac{dy}{dx} = \dfrac{du}{dx}v + u\dfrac{dv}{dx}$

Statistics

The mean of a set of data:
$\bar{x} = \dfrac{\sum x}{n} = \dfrac{\sum fx}{\sum f}$

The standard Normal variable:
$z = \dfrac{x - \mu}{\sigma}$ where $X \sim N(\mu, \sigma^2)$

Vectors

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

OCR A Level Maths Formula Mat Formulae and Identities You Will be Given

Trigonometric Identities

$\sin(A \pm B) = \sin A \cos B \pm \cos A \sin B$

$\cos(A \pm B) = \cos A \cos B \mp \sin A \sin B$

$\tan(A \pm B) = \dfrac{\tan A \pm \tan B}{1 \mp \tan A \tan B}\ \left(A \pm B \neq \left(k - \dfrac{1}{2}\right)\pi\right)$

Numerical Methods

Trapezium rule:
$\int_a^b y\, dx \approx \dfrac{1}{2}h\{(y_0 + y_n) + 2(y_1 + y_2 + \dots + y_{n-1})\}$, where $h = \dfrac{b-a}{n}$

Newton-Raphson method:
$f(x) = 0;\ x_{n+1} = x_n - \dfrac{f(x_n)}{f'(x_n)}$

Standard Deviation

$\sqrt{\dfrac{\sum(x - \bar{x})^2}{n}} = \sqrt{\dfrac{\sum x^2}{n} - \bar{x}^2}$ or $\sqrt{\dfrac{\sum f(x - \bar{x})^2}{\sum f}} = \sqrt{\dfrac{\sum fx^2}{\sum f} - \bar{x}^2}$

The Binomial Distribution

If $X \sim B(n, p)$ then:

$P(X = x) = \binom{n}{x}p^x(1 - p)^{n-x}$

Mean of $X = np$

Variance of $X = np(1 - p)$

The Normal Distribution

If $X \sim N(\mu, \sigma^2)$ then:

$\bar{X} \sim N\left(\mu, \dfrac{\sigma^2}{n}\right)$

$\dfrac{\bar{X} - \mu}{\frac{\sigma}{\sqrt{n}}} \sim N(0, 1)$

Small Angle Approximations

Where θ is measured in radians and small:

$\sin\theta \approx \theta$

$\cos\theta \approx 1 - \dfrac{1}{2}\theta^2$

$\tan\theta \approx \theta$

Kinematics

Motion in a straight line:

$v = u + at$

$s = ut + \dfrac{1}{2}at^2$

$s = vt - \dfrac{1}{2}at^2$

$v^2 = u^2 + 2as$

$s = \dfrac{1}{2}(u + v)t$

Motion in two dimensions:

$\mathbf{v} = \mathbf{u} + \mathbf{a}t$

$\mathbf{s} = \mathbf{u}t + \dfrac{1}{2}\mathbf{a}t^2$

$\mathbf{s} = \mathbf{v}t - \dfrac{1}{2}\mathbf{a}t^2$

$\mathbf{s} = \dfrac{1}{2}(\mathbf{u} + \mathbf{v})t$

Differentiation

Function	Derivative
$\tan bx$	$b\sec^2 bx$
$\sec x$	$\sec x \tan x$
$\cot x$	$-\operatorname{cosec}^2 x$
$\operatorname{cosec} x$	$-\operatorname{cosec} x \cot x$

First principles:
$f'(x) = \lim_{h \to 0}\dfrac{f(x + h) - f(x)}{h}$

Quotient rule:
$y = \dfrac{u}{v}$, $\dfrac{dy}{dx} = \dfrac{v\frac{du}{dx} - u\frac{dv}{dx}}{v^2}$

Integration

$\int \dfrac{f'(x)}{f(x)}\, dx = \ln|f(x)| + c$

$\int f'(x)(f(x))^n\, dx = \dfrac{1}{n+1}(f(x))^{n+1} + c$

Integration by parts:
$\int u\dfrac{dv}{dx}\, dx = uv - \int v\dfrac{du}{dx}\, dx$

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