

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

## Laws of Indices

$$a^m a^n \equiv a^{m+n}$$

$$\frac{a^m}{a^n} \equiv a^{m-n}$$

$$(a^m)^n \equiv a^{mn}$$

## Laws of Logarithms

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

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

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

$$\log_a a \equiv \log_a (a^1)$$

## 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

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

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

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

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

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

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

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

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

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

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

$$\sin 2\theta = 2 \sin \theta \cos \theta$$

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

$$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$$

## Mechanics

$$\text{weight} = mg$$

$$F = pR$$

$$F = ma$$

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

$$a = \frac{dv}{dt}$$

$$a = \frac{d^2x}{dt^2}$$

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

## 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  $h$ :

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

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

$$s = r\theta$$

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

## Integration

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

Reverse Chain rule:

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

## Differentiation

Function	Derivative
$\sin \theta$	$\theta \cos(\theta)$
$\cos \theta$	$-\theta \sin(\theta)$
$e^x$	$\theta e^x$
$\ln x$	$\frac{1}{x}$

Chain rule:

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

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

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

Product rule:

The derivative of  $y = f(x)g(x)$ :

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

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

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

## Statistics

The mean of a set of data:

$$\bar{x} = \frac{\sum x}{n} = \frac{\sum f_x}{\sum f}$$

$$\bar{x} = \frac{\sum x}{n} = \frac{\sum f_x}{\sum f}$$

The standard Normal variable:

$$Z = \frac{x - \mu}{\sigma} \text{ where } Z \sim N(0, 1)$$

## Vectors

$$|a + b + c| = \sqrt{a^2 + b^2 + c^2}$$

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

## Trigonometric Identities

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

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

$$\tan(A \pm B) = \frac{\tan A \pm \tan B}{1 \mp \tan A \tan B} \quad (A \pm B \neq (2k + \frac{1}{2})\pi)$$

## Numerical Methods

Trapezium rule:

$$\int_a^b f(x) \, dx \approx \frac{1}{2}h(y_0 + y_1) + 2(y_1 + y_2 + \dots + y_{n-1})$$

where  $h = \frac{b-a}{n}$

Newton-Raphson method:

$$f(x) = 0; x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$$

## Standard Deviation

$$\sqrt{\frac{\sum (x_i - \bar{x})^2}{n}} = \sqrt{\frac{\sum x_i^2}{n} - \bar{x}^2} \quad \text{or} \quad \sqrt{\frac{\sum x_i^2 - \frac{(\sum x_i)^2}{n}}{n}} = \sqrt{\frac{\sum x_i^2}{n} - \bar{x}^2}$$

## 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:

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

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

## Small Angle Approximations

Where  $\theta$  is measured in radians and small:

$$\sin \theta \approx \theta$$

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

$$\tan \theta \approx \theta$$

## Kinematics

Motion in a straight line:

$$v = u + at$$

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

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

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

$$s = \frac{1}{2}at^2 + vt$$

Motion in two dimensions:

$$v = u + at$$

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

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

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

## Differentiation

Function	Derivative
$\tan \theta$	$\theta \sec^2 \theta$
$\sec \theta$	$\sec \theta \tan \theta$
$\csc \theta$	$-\csc \theta \cot \theta$
$\cot \theta$	$-\csc^2 \theta$

First principles:

$$f'(a) = \lim_{h \rightarrow 0} \frac{f(a+h) - f(a)}{h}$$

Quotient rule:

$$f' = \frac{u}{v}; \quad \frac{df}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$$

$$f' = \frac{u}{v}; \quad \frac{df}{dx} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$$

## Integration

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

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

Integration by parts:

$$\int u \frac{dv}{dx} \, dx = uv - \int v \frac{du}{dx} \, dx$$

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