

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

Exponent Laws
$a^m \times a^n = a^{m+n}$
$\frac{a^m}{a^n} = a^{m-n}$
$(a^m)^n = a^{mn}$

Laws of Logarithms
$x = a^y \Leftrightarrow y = \log_a x$
$\log_a x + \log_a y = \log_a(xy)$
$\log_a x - \log_a y = \log_a\left(\frac{x}{y}\right)$
$\log_a a^x = x$

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: $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$
Cosine rule: $a^2 = b^2 + c^2 - 2bc \cos A$
Area: area = $\frac{1}{2}ab \sin C$
$\tan \theta = \frac{\sin \theta}{\cos \theta}$
$\sec \theta = \frac{1}{\cos \theta}$
$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$
$\cot \theta = \frac{1}{\tan \theta}$
$\cos^2 \theta + \sin^2 \theta = 1$
$\sec^2 \theta = 1 + \tan^2 \theta$
$\operatorname{cosec}^2 \theta = 1 + \cot^2 \theta$
$\sin 2\theta = 2 \sin \theta \cos \theta$
$\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
$\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$

Mechanics
weight = mg
$F = ma$
$F = mv$
$v = \frac{dx}{dt}$ $a = \frac{dv}{dt} = \frac{d^2x}{dt^2}$
$x = \int v dt$ $v = \int a dt$

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 , Area = $\frac{1}{2}(a+b)h$
For a sector radius r , angle θ (in radians) and arc length s , $s = r\theta$ $A = \frac{1}{2}r^2\theta$

Integration	
Function	Integral
$\sin bx$	$-\frac{1}{b} \cos(bx) + c$
$\cos bx$	$\frac{1}{b} \sin(bx) + c$
a^x	$\frac{a^x}{\ln a} + c$
$\frac{1}{x}$	$\ln x + c, x \neq 0$

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

Differentiation	
Function	Derivative
$\sin bx$	$b \cos(bx)$
$\cos bx$	$-b \sin(bx)$
a^x	$a^x \ln a$
$\ln x$	$\frac{1}{x}$

Chain rule:
If $y = f(u)$ and $u = g(x)$, $\frac{dy}{dx} = f'(g(x))g'(x)$
$\frac{d}{dx} \frac{u}{v} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

Product rule:
The derivative of $y = f(x)g(x)$, $\frac{dy}{dx} = f(x)g'(x) + f'(x)g(x)$
$\frac{d}{dx} \left(\frac{u}{v} \right) = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$

Statistics
The mean of a set of data: $\bar{x} = \frac{\sum x_i}{n} = \frac{\sum fx}{n}$
The standard Normal variable: $Z = \frac{x - \mu}{\sigma}$ where $Z \sim N(0, 1)$

Vectors
$(a + b) \cdot (a + b) = \sqrt{a^2 + b^2 + 2ab}$

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Perimeter, Area and Volume
Surface area of sphere = $4\pi r^2$
Area of curved surface of cone = $\pi r \times$ slant height

Binomial Series
$(1+x)^n = 1 + nx + \frac{n(n-1)}{2!}x^2 + \frac{n(n-1)(n-2)}{3!}x^3 + \dots + x^n$ ($n \in \mathbb{N}$)
Where $\binom{n}{r} = \frac{n!}{r!(n-r)!}$
$(1+x)^n = 1 + nx + \frac{n(n-1)}{2!}x^2 + \frac{n(n-1)(n-2)}{3!}x^3 + \dots$ ($ x < 1, n \in \mathbb{R}$)

Sequences
Arithmetic sequences: $S_n = \frac{1}{2}n(a + b) = \frac{1}{2}n(2a + (n-1)d)$
Geometric sequences: $S_n = \frac{a(1-r^n)}{1-r}$
$S_\infty = \frac{a}{1-r}$ for $ r < 1$

Standard Deviation
standard deviation = $\sqrt{\text{variance}}$
interquartile range = IQR = $Q_3 - Q_1$
For a set of n values, $x_1, x_2, \dots, x_n, \dots, x_n$
$S_x = \sum (x_i - \bar{x})^2 = \sum x_i^2 - \frac{(\sum x_i)^2}{n}$

Differentiation	
Function	Derivative
$\tan bx$	$b \sec^2 bx$
$\sec bx$	$b \sec bx \tan bx$
$\cot bx$	$-b \operatorname{cosec}^2 bx$
$\operatorname{cosec} bx$	$-b \operatorname{cosec} bx \cot bx$
$\frac{dx}{dt} = \frac{dy}{dy} \frac{dy}{dx}$	$\frac{dy}{dx} = \frac{dy}{dy} \frac{dy}{dx}$

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

Statistics
$P(A) = 1 - P(\bar{A})$
$P(A \cap B) = P(A) + P(B) - P(A \cup B)$
$P(A \cap B) = P(A)P(B)$
$P(A B) = \frac{P(A \cap B)}{P(B)}$

For independent events A and B:
$P(A \cap B) = P(A)P(B)$
$P(A B) = P(A)$

Integration	
Integration by parts: $\int u \frac{dv}{dx} dx = uv - \int v \frac{du}{dx} dx$	
Function	Integral
$\sec^2 bx$	$\frac{1}{b} \tan bx$
$\tan bx$	$-\frac{1}{b} \ln \sec bx $
$\cot bx$	$\frac{1}{b} \ln \sin bx $
$\operatorname{cosec} bx$	$-\frac{1}{b} \ln \operatorname{cosec} bx + \cot bx $ $\frac{1}{b} \ln \tan \frac{1}{2} bx $
$\sec bx$	$\frac{1}{b} \ln \sec bx + \tan bx $ $\frac{1}{b} \ln\left \tan\left(\frac{1}{2} bx + \frac{1}{4} \pi\right)\right $

Small Angle Approximations
Where θ is measured in radians and small:
$\sin \theta \approx \theta$
$\cos \theta \approx 1 - \frac{1}{2}\theta^2$
$\tan \theta \approx \theta$

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