

Edexcel 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

$$\text{weight} = mg$$

$$F = pR$$

$$F = ma$$

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

$$x = \int v \, dt$$

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

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

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 θ (in radians) and arc length s ,

$$s = r\theta$$

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

Integration

Function	Integral
$\sin x$	$-\frac{1}{2}\cos(2x) + c$
$\cos x$	$\frac{1}{2}\sin(2x) + c$
e^x	$\frac{1}{2}e^{2x} + c$
$\frac{1}{x}$	$\ln x + c, x \neq 0$

Reverse Chain rule:

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

Differentiation

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

Chain rule:

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

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

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

Product rule:

$$\text{The derivative of } y = f(x)g(x),$$

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

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

Statistics

The mean of a set of data:

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

The standard Normal variable:

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

Vectors

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

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Perimeter, Area and Volume

$$\text{Surface area of sphere} = 4\pi r^2$$

$$\text{Area of curved surface of cone} = \pi r \times \text{slant height}$$

Binomial Series

$$(1+x)^n = 1 + \binom{n}{1}x + \binom{n}{2}x^2 + \binom{n}{3}x^3 + \dots + \binom{n}{r}x^r + \dots + x^n \quad (x \in \mathbb{R})$$

$$\text{Where } \binom{n}{r} = {}^nC_r = \frac{n!}{r!(n-r)!}$$

$$(1+x)^{-1} = 1 - x + \frac{1(1-1)}{2}x^2 + \dots + \frac{1(1-1)(1-1)}{r!}x^r + \dots \quad (|x| < 1, n \in \mathbb{R})$$

Sequences

$$\text{Arithmetic sequences: } S_n = \frac{1}{2}n(a + l) = \frac{1}{2}n(2a + (n-1)d)$$

$$\text{Geometric sequences: } S_n = \frac{a(1-r^{n+1})}{1-r}$$

$$S_\infty = \frac{a}{1-r} \text{ for } |r| < 1$$

Standard Deviation

$$\text{standard deviation} = \sqrt{\text{variance}}$$

$$\text{Interquartile range} = \text{IQR} = Q_3 - Q_1$$

$$\text{For a set of } n \text{ values, } x_1, x_2, \dots, x_n, \dots, x_n$$

$$S_n = \sum (x_i - \bar{x})^2 = \sum x_i^2 - \frac{(\sum x_i)^2}{n}$$

Differentiation

Function	Derivative
$\tan x$	$\sec^2 x$
$\sec x$	$\sec x \tan x$
$\cot x$	$-\csc^2 x$
$\csc x$	$-\csc x \cot x$
$\frac{f(x)}{g(x)}$	$\frac{f'(x)g(x) - f(x)g'(x)}{g(x)^2}$

First principles:

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

Statistics

$$P(A) = 1 - P(\bar{A})$$

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$P(A \cap B) = P(A)P(B)$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)}$$

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
$\sec^2 x$	$\frac{1}{2}\tan x$
$\tan x$	$\frac{1}{2}\ln \sec x $
$\cot x$	$\frac{1}{2}\ln \sin x $
$\csc x$	$-\frac{1}{2}\ln \csc x + \cot x $
$\sec x$	$\frac{1}{2}\ln \sec x + \tan x $

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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Table of Contents Mathematics Formulae Sheets Edexcel Fp1

1. Understanding the eBook Mathematics Formulae Sheets Edexcel Fp1
 - The Rise of Digital Reading Mathematics Formulae Sheets Edexcel Fp1
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics Formulae Sheets Edexcel Fp1
 - 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 Mathematics Formulae Sheets Edexcel Fp1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics Formulae Sheets Edexcel Fp1
 - Personalized Recommendations
 - Mathematics Formulae Sheets Edexcel Fp1 User Reviews and Ratings
 - Mathematics Formulae Sheets Edexcel Fp1 and Bestseller Lists
5. Accessing Mathematics Formulae Sheets Edexcel Fp1 Free and Paid eBooks
 - Mathematics Formulae Sheets Edexcel Fp1 Public Domain eBooks
 - Mathematics Formulae Sheets Edexcel Fp1 eBook Subscription Services
 - Mathematics Formulae Sheets Edexcel Fp1 Budget-Friendly Options

6. Navigating Mathematics Formulae Sheets Edexcel Fp1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics Formulae Sheets Edexcel Fp1 Compatibility with Devices
 - Mathematics Formulae Sheets Edexcel Fp1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics Formulae Sheets Edexcel Fp1
 - Highlighting and Note-Taking Mathematics Formulae Sheets Edexcel Fp1
 - Interactive Elements Mathematics Formulae Sheets Edexcel Fp1
8. Staying Engaged with Mathematics Formulae Sheets Edexcel Fp1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics Formulae Sheets Edexcel Fp1
9. Balancing eBooks and Physical Books Mathematics Formulae Sheets Edexcel Fp1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics Formulae Sheets Edexcel Fp1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics Formulae Sheets Edexcel Fp1
 - Setting Reading Goals Mathematics Formulae Sheets Edexcel Fp1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics Formulae Sheets Edexcel Fp1
 - Fact-Checking eBook Content of Mathematics Formulae Sheets Edexcel Fp1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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