

EDExcel A LEVEL MATHS - INVERSE FORMULA BOOKLET

All the formula + identities **NOT** in the formula booklet that you need to know.

BASIC GCSE EQUATIONS

Quadratic Equation:

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Cosine Rule:

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

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Sine rule:

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Area of a triangle:

$$A = \frac{1}{2} ab \sin C$$

COORDINATE GEOMETRY

For straight line between (x_1, y_1) and (x_2, y_2) :

Gradient, $m = \frac{y_2 - y_1}{x_2 - x_1}$

Length = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Midpoint: $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

Lines perpendicular if: $m_1 m_2 = -1$

Equation of a straight line:

$$y - y_1 = m(x - x_1)$$

Equation of a circle (centre (a, b) , radius r):

$$(x - a)^2 + (y - b)^2 = r^2$$

Circle theorems:

- The perpendicular bisector of a chord will pass through the centre of a circle.
- A tangent to a circle is perpendicular to the radius of the circle at the point of intersection.
- The angle in a semicircle is 90° (1/2 red).



LAWS OF INDICES

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

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

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

$$(ab)^n = a^n b^n$$

$$\frac{1}{a^m} = a^{-m}$$

$$a^{-m} = \frac{1}{a^m}$$

LAWS OF LOGARITHMS

$$\boxed{a^x = y} \Rightarrow \boxed{x = \log_a(y)}$$

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

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

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

$$\log_a(a) = 1$$

$$\log_a(1) = 0$$

$$\log_a\left(\frac{1}{x}\right) = -\log_a(x)$$

VECTORS

$$\vec{AB} = \vec{OB} - \vec{OA}$$

$$\hat{a} = \frac{1}{|a|} a$$

For $a = \begin{bmatrix} i \\ j \\ k \end{bmatrix}$, $|a| = \sqrt{i^2 + j^2 + k^2}$

SEQUENCES + SERIES

General forms of arithmetic and geometric series:

Arithmetic:

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

Geometric:

$$u_n = ar^{n-1}$$

TRIGONOMETRY

Trig Definitions:

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

$$\frac{1}{\sin \theta} \equiv \operatorname{cosec} \theta$$

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

$$\frac{\cos \theta}{\sin \theta} \equiv \frac{1}{\tan \theta} \equiv \cot \theta$$

Pythagorean Identities:

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

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

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

Double angle formulae:

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

$$\begin{aligned} \cos 2\theta &= \cos^2 \theta - \sin^2 \theta \\ &= 2 \cos^2 \theta - 1 \\ &= 1 - 2 \sin^2 \theta \end{aligned}$$

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

RADIANS

Definition:

$$1 \text{ rad} = \frac{180^\circ}{\pi}$$

Arc length:

$$l = r\theta$$

Sector area:

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

FACTOR THEOREM

If $f(p) = 0$ then $(x - p)$ is a factor of $f(x)$.

13 A Level Maths

Schools Council (Great Britain)



13 A Level Maths:

The Mathematics Education for the Future Project. Proceedings of the 13th International Conference

Mathematics Education in a Connected World Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

Proceedings of the 13th International Congress on Mathematical Education Gabriele Kaiser, 2017-10-31 This book is open access under a CC BY 4.0 license The book presents the Proceedings of the 13th International Congress on Mathematical Education ICME 13 and is based on the presentations given at the 13th International Congress on Mathematical Education ICME 13 ICME 13 took place from 24th-31st July 2016 at the University of Hamburg in Hamburg Germany The congress was hosted by the Society of Didactics of Mathematics Gesellschaft für Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI ICME 13 brought together about 3 500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities Directly before the congress activities were offered for 450 Early Career Researchers The proceedings give a comprehensive overview on the current state of the art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching and learning processes The book introduces the major activities of ICME 13 namely articles from the four plenary lecturers and two plenary panels articles from the five ICMI awardees reports from six national presentations three reports from the thematic afternoon devoted to specific features of ICME 13 Furthermore the proceedings contain descriptions of the 54 Topic Study Groups which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops The additional important activities of ICME 13 namely papers from the invited lecturers will be presented in the second volume of the proceedings

Perspectives on Childhood Aisling Leavy, Margaret Nohilly, 2021-07-27 This collection brings together various cutting edge and accessible perspectives and insights into the rich complex and intriguing stage of life that is childhood Contributions here relate specifically to the Irish context with many seamless connections also made to the universal themes of childhood and their relevance within the international context The chapters are organised into four themes 1 Children and families in education and special education settings 2 Children's environment and play spaces 3 Children's voice in research classrooms and non traditional settings and 4 Children's experiences in STEM education Across the chapters the authors identify current best practices and place them within the overall context of current trends in research into childhood There is a complementary balance of theoretical and practical knowledge presented throughout the volume Given the variety of perspectives and contributions presented here it will be of interest to those working in professional practice such as educators psychologists sociologists and the more general public including parents and

policymakers Pure Mathematics Linda Bostock, Suzanne Chandler, F. S. Chandler, 1979 Includes a section on matrices and transformations this book features worked examples and exercises to illustrate concepts at every stage of its development It caters for the Pure Mathematics content of various courses in Further Mathematics and also for preparation for the Advanced Extension Award **Science Teaching in Schools** Great Britain: Parliament: House of Lords: Science and Technology Committee, 2006-11-05 The Committee's report examines science and mathematics teaching in secondary schools in England focusing on the following issues the take up of science and mathematics at GCSE and A level the provision of careers advice to students problems in the recruitment and retention of teachers the quality of teaching methods and the role of continuing professional development The Committee finds that effective science teaching in schools is essential both in order to ensure a satisfactory general level of scientific literacy in society and to enable the next generation of scientists and engineers to progress into higher education and beyond It argues that the current examination system forces students to study an excessively narrow range of subjects at too early an age and it recommends that the Government should reconsider the Tomlinson proposals for a broader diploma based system for 14-19 year old students based on the International Baccalaureate This would ensure that students receive a more rounded education and are not made to over specialise before they are able to see the merits of studying science and mathematics Concerns are also raised about the shortage of science teachers particularly specialist physics and chemistry teachers the quality of careers advice in schools and the importance of practical science in schools *Which Degree 1996* Lynne Massey, 1995-06 **Young People's Intentions to Enter Higher Education** Bob Redpath, Barbara Harvey, 1987 *The Examination Courses of First Year Sixth Formers* Schools Council (Great Britain), 1973 **The Times Index** , 2004 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement **Mathematics Today** , 2002 *Sixth Form Survey: Sixth form pupils and teachers, Phase I of the survey*, by R. Morton-Williams, J. Raven, and J. Ritchie Schools Council (Great Britain), 1970 **Commonwealth Universities Yearbook** T. Craig, Hugh W. Springer, 1979 *Singapore English* David Deterding, 2007 This comprehensive volume provides an excellent informative account of present day Singapore English along with a balanced and insightful discussion of the political and ideological factors involved *IMACS '91, 13th World Congress on Computation and Applied Mathematics* Robert Vichnevetsky, John J. H. Miller, 1991 Proceedings Computer Arithmetic Algebra OOP *Statistics of Education* Great Britain. Dept. of Education and Science, 1968 **Tests in Print** , 1999 *British Books in Print* , 1985 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons, 2008 **Census of India, 1991: Tables B-12(F), B-13(i)(F), B13(ii)(F), and B-14(F)** , 1994 **Statistical Bulletin** , 1999

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