

The mean value of $f(x)$ on the interval $[a, b]$ is $\frac{1}{b-a} \int_a^b f(x) dx$

Area of sector enclosed by polar curve is $\frac{1}{2} \int r^2 d\theta$

$f(x)$	$\int f(x) dx$
$\frac{1}{\sqrt{a^2 - x^2}}$	$\sin^{-1}\left(\frac{x}{a}\right) \quad (x < a)$
$\frac{1}{a^2 + x^2}$	$\frac{1}{a} \tan^{-1}\left(\frac{x}{a}\right)$
$\frac{1}{\sqrt{a^2 + x^2}}$	$\sinh^{-1}\left(\frac{x}{a}\right)$ or $\ln(x + \sqrt{x^2 + a^2})$
$\frac{1}{\sqrt{x^2 - a^2}}$	$\cosh^{-1}\left(\frac{x}{a}\right)$ or $\ln(x + \sqrt{x^2 - a^2}) \quad (x > a)$

Numerical methods

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

The Newton-Raphson iteration for solving $f(x) = 0$: $x_{n+1} = x_n - \frac{f(x_n)}{f'(x_n)}$

Complex numbers

Circles: $|z - a| = k$

Half lines: $\arg(z - a) = \alpha$

Lines: $|z - a| = |z - b|$

De Moivre's theorem: $\{r(\cos \theta + i \sin \theta)\}^n = r^n (\cos n\theta + i \sin n\theta)$

Roots of unity: The roots of $z^n = 1$ are given by $z = \exp\left(\frac{2\pi k}{n} i\right)$ for $k = 0, 1, 2, \dots, n-1$

Vectors and 3-D coordinate geometry

Cartesian equation of the line through the point A with position vector $\mathbf{a} = a_1\mathbf{i} + a_2\mathbf{j} + a_3\mathbf{k}$ in direction

$\mathbf{u} = u_1\mathbf{i} + u_2\mathbf{j} + u_3\mathbf{k}$ is $\frac{x-a_1}{u_1} = \frac{y-a_2}{u_2} = \frac{z-a_3}{u_3} (= \lambda)$

Cartesian equation of a plane $n_1x + n_2y + n_3z + d = 0$

Vector product: $\mathbf{a} \times \mathbf{b} = \begin{vmatrix} \mathbf{i} & \mathbf{j} & \mathbf{k} \\ a_1 & a_2 & a_3 \\ b_1 & b_2 & b_3 \end{vmatrix} = \begin{vmatrix} a_2b_3 - a_3b_2 \\ a_3b_1 - a_1b_3 \\ a_1b_2 - a_2b_1 \end{vmatrix}$

Further Maths Cheat Sheet

Kevin Buzzard, Temur Kutsia



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Palm of the Rainforest Ikénnà Nn?l?,2020-08-28 I know who I am Kelvin seemed desperate to win his father s approval However Mr Eze not only seemed unwilling to bestow it but hell bent in making life unbearable for his acclaimed son Kelvin thought it would be best to find his true family rather than endure the torture of being the unwanted child He realised that his quest for recognition was unlikely to succeed so he set his eyes on freedom In the meantime Kelvin expected that a good academic performance would change his luck and put him right with Mr Eze or at least boost his confidence in his abilities With all his attention on his studies competing for the best grades against the leading brains in his class especially Christian an indomitable rival he would not let school romance get in the way fo his goal But slowly and steadily Chioma gained his trust and won him over He would have to make a decision between holding on to his moral principle or satisfying his human desire for friendship New Home New Identity Marginalised and decimated the Biafran people were forced to go to war and secede from Nigeria But decades after losing the war and embracing the Nigerian identity they are still not treated as equal citizens in their home country As a new wave of terrorism sweeps the northern parts of the country the Biafran people predominantly Igbo are again decimated as they have been for decades in every crises and this led to renewed discussions about their independence For Biafra the fight for equality was over and their Sovereignty was not negotiable For Kelvin it wasn t very different and so his quest for truth and independence must begin His compulsory holiday in Igbo land would expose him to the truth that might have indirectly caused him to abandon his academic pursuit Perhaps it was just an excuse to free himself from the clutch of Mr Eze and begin his quest for the truth about his identity

Key Maths 7/1 David Baker,2000 These resources provide invaluable support within the Key Maths series for all mathematics teachers whether specialists or non specialist experienced or new to the profession

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Primary Education Anna Craft,2002-09-11 This wide ranging collection examines current and future trends in assessing and planning learning in the primary school Containing practical advice on classroom management quality control and teacher and performance assessment

Intelligent Computer Mathematics Kevin Buzzard,Temur Kutsia,2022-09-16 This book constitutes the refereed proceedings of the 15th International Conference on Intelligent Computer Mathematics CICM 2022 held in Tbilisi Georgia in September 2022 The 17 full papers 1 project survey paper 4 short papers and 2 abstracts of invited papers

presented were carefully reviewed and selected from a total of 37 submissions The papers focus on theoretical and practical solutions for these challenges including computation deduction narration and data management **Key Maths** David Miller,2001 This series of resources provides comprehensive support for the Framework for Teaching Mathematics for Year 8 with particular emphasis on a three part mathematics lesson The materials are fully linked to Key Maths and address the beginning and end of the typical lesson structure outlined in the Framework The activities within the packs provide a variety of presentational models including opportunities for interactive oral work direct teaching and paired or group activity work to encourage pupils to engage in mathematical conversation This ICT resource pack provides full details on developing and supporting ICT work in mathematics Full range of additional worksheets that build on the activities in the CD ROM and linked to the National Curriculum The pack makes full reference to DfEE ICT guidelines and other requirements

Evaluating Authentic Assessment Harry Torrance,1995 This work provides an overview of issues problems and empirical evidence from a variety of developments in assessment in England and Wales including National Assessment public examinations at 16 and post compulsory schooling National Vocational Qualifications NVQs **Paperbacks in Print** ,1974

My Revision Notes: AQA Level 2 Certificate in Further Mathematics Michael Ling,2020-01-20 Target success in the AQA Certificate in Further Maths with this proven formula for effective structured revision Key content coverage and numerous worked examples are combined with exam style questions to create a revision guide that students can rely on to review strengthen and test their knowledge Help develop the key skills needed for success with skills focused and problem solving questions covering the 2018 specification Strategically target revision with diagnostic questions to establish which areas need focus Get assessment ready with exam style questions and advice on common examination pitfalls Revise effectively with advice on exam preparation plus special focus on common pitfalls such as how to show correct workings Improve answers with full step by step worked solutions to all questions provided online for free **Changing English Primary**

Schools? Andrew Pollard,1994 **Shakespeare and Science** Tom Rutter,2024-08-24 As a figurehead for the literary humanities and a dramatist whose plays feature fairies ghosts and spirits Shakespeare may not be the first author that comes to mind when thinking about science Tom Rutter shows however that in his plays and poetry Shakespeare made detailed use of the knowledge and theories of the cosmos the natural world and human biology that were available to him These range from astronomical and anatomical ideas derived from medieval scholars Islamic philosophers and ancient Greek and Roman authorities through to the challenges issued to those earlier models by more recent figures such as Copernicus and Vesalius Shakespeare s treatment of these materials was informed by the poetic and dramatic media in which he worked the dialogic nature of drama enabled an approach that could be provisional exploratory and tolerant of uncertainty and contradiction Shakespeare made the early modern playhouse a venue for the production of scientific understanding through performance illusion and the creative use of space As well as surveying current scholarship that contextualizes Shakespeare s work in

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The School Science Review ,2006 Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2006 *Interactive Media* Richard Neil Tucker,1989 *Atlas of the Planar, Circular, Restricted Three-body Problem* Othon C. Winter,Carl D. Murray,1994 **Bulletin of the Belgian Mathematical Society, Simon Stevin** ,1994 Mathematical Reviews ,1994 *Whitaker's Cumulative Book List* ,1967

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