

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

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It's Never Just About The Behaviour Claire English,2024-05-31 Supports teachers to approach behaviour management through a holistic and best practice approach grounded in research and understanding *Palm of the Rainforest* Ikennà 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 7/2** 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 *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 **Salters Horners Advanced Physics** ,2001 The Salters Horners Advanced Physics series places physics into social industrial environmental and historical contexts and covers the A Level specifications in place from September 2000 This A2 Level student book features maths support notes and applications led illustrations of physics **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

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