

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

Further Maths Cheat Sheet

N Colangelo

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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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

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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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