

Mathematical Methods 3,4 Summary sheets

Distance between two points

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

Mid-point = $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

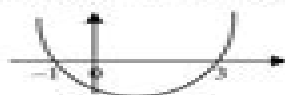
Parallel lines, $m_1 = m_2$

Perpendicular lines,

$$m_1 m_2 = -1 \quad \text{or} \quad m_2 = -\frac{1}{m_1}$$

Graphs of polynomial functions in factorised form:

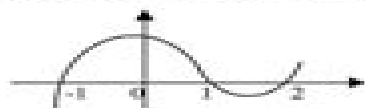
Quadratics e.g. $y = (x+1)(x-3)$



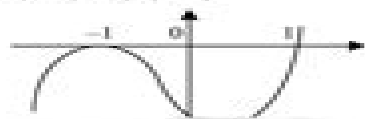
e.g. $y = (x-3)^2$



Cubics e.g. $y = 3(x+1)(x-1)(x-2)$



e.g. $y = (x+1)^2(x-1)$



e.g. $y = (x+3)^2(x-1)^2$



e.g. $y = (x+2)^2(x-1)$

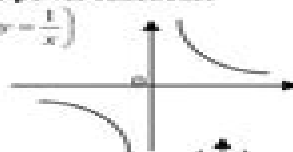


e.g. $y = (x+2)^3$

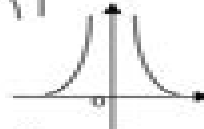


Examples of power functions:

$y = x^{-1}$ ($y = \frac{1}{x}$)



$y = x^{-2}$
($y = \frac{1}{x^2}$)

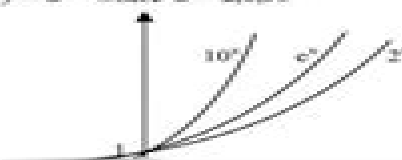


$y = x^{\frac{1}{2}}$
($y = \sqrt{x}$)



Exponential functions:

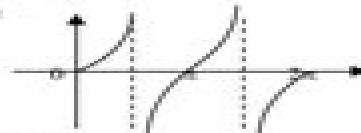
$y = a^x$ where $a = 2, e, 10$



$y = \cos x$

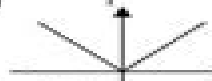


$y = \tan x$



Modulus functions

$$y = |x| = \begin{cases} x, & x \geq 0 \\ -x, & x < 0 \end{cases}$$



Transformations of $y = f(x)$

(1) Vertical dilation (dilation away from the x-axis, dilation parallel to the y-axis) by factor k . $y = kf(x)$

(2) Horizontal dilation (dilation away from the y-axis, dilation parallel to the x-axis) by factor $\frac{1}{a}$. $y = f(ax)$

(3) Reflection in the x-axis. $y = -f(x)$

(4) Reflection in the y-axis. $y = f(-x)$

(5) Vertical translation (translation parallel to the y-axis) by c units.

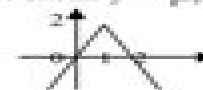
$$y = f(x) \pm c, \text{ + up, - down.}$$

(6) Horizontal translation (translation parallel to the x-axis) by b units.

$$y = f(x \pm b), \text{ + left, - right.}$$

*Always carry out translations last in sketching graphs.

Example 1 Sketch $y = -2|x-1| + 2$



Example 2 Sketch $y = 2\sqrt{1-x}$.

Rewrite as $y = 2\sqrt{-(x-1)}$.



Mathematical Methods

Sue Michell, Beverly Langsford Willing



Mathematical Methods:

Mathematical Methods for Physics and Engineering K. F. Riley, M. P. Hobson, S. J. Bence, 2006-03-13 The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences As well as lucid descriptions of all the topics and many worked examples it contains over 800 exercises New stand alone chapters give a systematic account of the special functions of physical science cover an extended range of practical applications of complex variables and give an introduction to quantum operators Further tabulations of relevance in statistics and numerical integration have been added In this edition half of the exercises are provided with hints and answers and in a separate manual available to both students and their teachers complete worked solutions The remaining exercises have no hints answers or worked solutions and can be used for unaided homework full solutions are available to instructors on a password protected web site www.cambridge.org 9780521679718

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We were enthusiastic when the organizers of the 2004 European Conference on Computer Vision ECCV allowed us to organize a satellite workshop devoted to medical image analysis Mathematical Methods for Signal and Image Analysis and Representation Luc Florack, Remco Duits, Geurt Jongbloed, Marie-Colette van Lieshout, Laurie Davies, 2012-01-12

Mathematical Methods for Signal and Image Analysis and Representation presents the mathematical methodology for generic image analysis tasks In the context of this book an image may be any m dimensional empirical signal living on an n dimensional smooth manifold typically but not necessarily a subset of spacetime The existing literature on image methodology is rather scattered and often limited to either a deterministic or a statistical point of view In contrast this book brings together these seemingly different points of view in order to stress their conceptual relations and formal analogies Furthermore it does not focus on specific applications although some are detailed for the sake of illustration but on the methodological frameworks on which such applications are built making it an ideal companion for those seeking a rigorous methodological basis for specific algorithms as well as for those interested in the fundamental methodology per se Covering many topics at the forefront of current research including anisotropic diffusion filtering of tensor fields this book will be of particular interest to graduate and postgraduate students and researchers in the fields of computer vision medical imaging and visual perception

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Mathematical Methods and Modelling in Applied Sciences Mehmet Zeki Sarıkaya,Hemen Dutta,Ahmet Ocak Akdemir,Hari M. Srivastava,2020-03-02 This book presents a collection of original research papers from the 2nd International Conference on Mathematical and Related Sciences held in Antalya Turkey on 27 30 April 2019 and sponsored supported by D zce University Turkey the University of Jordan and the Institute of Applied Mathematics Baku State University Azerbaijan The book focuses on various types of mathematical methods and models in applied sciences new mathematical tools techniques and algorithms related to various branches of applied sciences and important aspects of applied mathematical analysis It covers mathematical models and modelling methods related to areas such as networks intelligent systems population dynamics medical science and engineering as well as a wide variety of analytical and numerical methods The conference aimed to foster cooperation among students researchers and experts from diverse areas of mathematics and related sciences and to promote fruitful exchanges on crucial research in the field This book is a valuable resource for graduate students researchers and educators interested in applied mathematics and interactions of mathematics with other branches of science to provide insights into analysing modelling and solving various scientific problems in applied sciences

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now she slid one more sheet of paper toward mr grow let s add a few variations she said this poem for example uses true a true abc pattern in it the first letter of each line uses the alphabet in consecutive order it s called abecedarian format appropriate mr grow said i notice this is more like haiku

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