Mathematical Methods 3,4 Summary sheets

Distance between two points

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

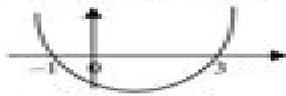**Mid-point** $= \left(\dfrac{x_1 + x_2}{2}, \dfrac{y_1 + y_2}{2} \right)$

Parallel lines, $m_1 = m_2$
Perpendicular lines,

$m_1 m_2 = -1 \qquad$ or $\qquad m_2 = -\dfrac{1}{m_1}$

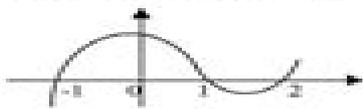**Graphs of polynomial functions in factorised form:**

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

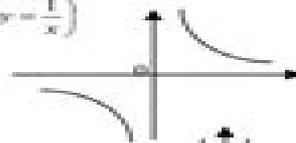

e.g. $y = (x+3)^2(x-1)^2$

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

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

Examples of power functions:

$y = x^{-1} \qquad \left(y = \dfrac{1}{x} \right)$

$y = x^{-2} \quad \left(y = \dfrac{1}{x^2} \right)$
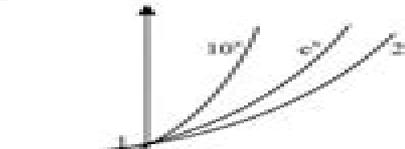

$y = x^{\frac{1}{2}} \quad (y = \sqrt{x})$

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. $\qquad y = kf(x)$

(2) Horizontal dilation (dilation away from the y-axis, dilation parallel to the x-axis) by factor $\dfrac{1}{n}$. $\quad y = f(nx)$

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

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

(5) Vertical translation (translation parallel to the y-axis) by c units.
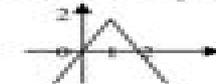$\qquad y = f(x) \pm c$, + up, − down.

(6) Horizontal translation (translation parallel to the x-axis) by b units.
$\qquad y = f(x \pm b)$, + 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

Mattias Blennow

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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Mathematical Methods in Physics and Engineering John W. Dettman,2013-01-23 Intended for college level physics engineering or mathematics students this volume offers an algebraically based approach to various topics in applied math It is accessible to undergraduates with a good course in calculus which includes infinite series and uniform convergence Exercises follow each chapter to test the student s grasp of the material however the author has also included exercises that extend the results to new situations and lay the groundwork for new concepts to be introduced later A list of references for further reading will be found at the end of each chapter For this second revised edition Professor Dettman included a new section on generalized functions to help explain the use of the Dirac delta function in connection with Green s functions In addition a new approach to series solutions of ordinary differential equations has made the treatment independent of complex variable theory This means that the first six chapters can be grasped without prior knowledge of complex variables However since Chapter 8 depends heavily on analytic functions of a complex variable a new Chapter 7 on analytic function theory has been written   Mathematical Methods of Statistics Harald Cramér,1999-04-12 In this classic of statistical mathematical theory Harald Cram r joins the two major lines of development in the field while British and American statisticians were developing the science of statistical inference French and Russian probabilitists transformed the classical calculus of probability into a rigorous and pure mathematical theory The result of Cram r s work is a masterly exposition of the mathematical methods of modern statistics that set the standard that others have since sought to follow For anyone with

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applications are well integrated The mathematical insights that the student acquires are therefore driven by their physical insight Topics that are covered include vector calculus linear algebra Fourier analysis scale analysis complex integration Green s functions normal modes tensor calculus and perturbation theory The second edition contains new chapters on dimensional analysis variational calculus and the asymptotic evaluation of integrals This book can be used by undergraduates and lower level graduate students in the physical sciences It can serve as a stand alone text or as a source of problems and examples to complement other textbooks **Mathematical Methods in Interdisciplinary Sciences** Snehashish Chakraverty,2020-06-15 Brings mathematics to bear on your real world scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real life scientific and technological problems The collection of chapters Dr Snehashish Chakraverty has provided describe in detail how to bring mathematics statistics and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study Graduate students postgraduate students researchers and professors will all benefit significantly from the author s clear approach to applied mathematics The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions Subjects include Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence It concludes with examinations of various fields of application like infectious diseases autonomous car and monotone inclusion problems **Mathematical Methods in Physics and Engineering with Mathematica** Ferdinand F. Cap,2003-05-28 More than ever before complicated mathematical procedures are integral to the success and advancement of technology engineering and even industrial production Knowledge of and experience with these procedures is therefore vital to present and future scientists engineers and technologists Mathematical Methods in Physics and Engineering

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