

1. Solve for unknown x using the quadratic formula.

$$ax^2 + bx + c = 0$$

$$d = \frac{(x+1)(x+2)=0}{x=-1 \text{ OR } x=-2} \quad b=3 \quad c=2$$

$$1x^2 + 3x + 2 = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$= \frac{-3 \pm \sqrt{3^2 - 4(1)(2)}}{2(1)}$$

$$= \frac{-3 \pm \sqrt{9-8}}{2}$$

$$= \frac{-3 \pm \sqrt{1}}{2} = \frac{-3 \pm 1}{2}$$

$$x = \frac{-3+1}{2} = \frac{-2}{2} = -1 \quad \text{OR} \quad x = \frac{-3-1}{2} = \frac{-4}{2} = -2$$

$$1x^2 - x - 2 = 0 \quad x=1 \text{ OR } x=-2$$

$$(-1)^2 - 4(1)(-2) = 1 + 8 = 9, \quad \sqrt{9} = 3$$

$$x = \frac{-(-1) \pm 3}{2(1)} = \frac{1 \pm 3}{2}$$

$$x = \frac{1+3}{2} = 2 \text{ OR } x = \frac{1-3}{2} = -1$$

$$(x-2)(x+1) = 0$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$a=1 \quad b=-3 \quad c=2$$

$$1x^2 - 3x + 2 = 0$$

$$b^2 - 4ac = (-3)^2 - 4(1)(2) = 9 - 8 = 1, \quad \sqrt{1} = 1$$

$$x = \frac{-(-3) \pm 1}{2(1)} = \frac{3 \pm 1}{2}$$

$$x = \frac{3+1}{2} = 2 \text{ OR } x = \frac{3-1}{2} = 1$$

$$(x-2)(x-1)=0$$

$$x=2 \text{ OR } x=1$$

$$10x^2 + 10x - 20 = 0$$

$$10^2 - 4(10)(-20) = 100 + 800 = 900$$

$$\sqrt{900} = 30$$

$$x = \frac{-(-10) \pm 30}{2(10)} = \frac{-10 \pm 30}{20}$$

$$x = \frac{-10+30}{20} = \frac{20}{20} = 1 \text{ OR } x = \frac{-10-30}{20} = \frac{-40}{20} = -2$$

$$\text{OR } x = \frac{-10-30}{20} = \frac{-40}{20} = -2$$

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Algebraic and Geometric Methods in Discrete Mathematics Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences a new method for approximating the optimal solution of a sum of squares problem a survey of recent Helly type geometric theorems applications of representation theory to voting theory and game theory a study of fixed points of tensors and exponential random graph models from the perspective of algebraic statistics with applications to networks This volume was written for those trained in areas such as algebra topology geometry and combinatorics who are interested in tackling problems in fields such as biology the social sciences data analysis and optimization It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective

Certificates of Positivity for Real Polynomials Victoria Powers, 2021-11-26 This book collects and explains the many theorems concerning the existence of certificates of positivity for polynomials that are positive globally or on semialgebraic sets A certificate of positivity for a real polynomial is an algebraic identity that gives an immediate proof of a positivity condition for the polynomial Certificates of positivity have their roots in fundamental work of David Hilbert from the late 19th century on positive polynomials and sums of squares Because of the numerous applications of certificates of positivity in mathematics applied mathematics engineering and other fields it is desirable to have methods for finding describing and characterizing them For many of the topics covered in this book appropriate algorithms computational methods and applications are discussed This volume contains a comprehensive accessible up to date treatment of certificates of positivity written by an expert in the field It provides an overview of both the theory and computational aspects of the subject and includes many of the recent and exciting developments in the area Background information is given so that beginning graduate students and researchers who are not specialists can learn about this fascinating subject Furthermore researchers who work on certificates of positivity or use them in applications will find this a useful reference for their work

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Madhu,A. Manimaran,D. Easwaramoorthy,D. Kalpanapriya,M. Mubashir Unnissa,2019-01-23 This volume is the first of two containing selected papers from the International Conference on Advances in Mathematical Sciences Vellore India December 2017 Volume I This meeting brought together researchers from around the world to share their work with the aim of promoting collaboration as a means of solving various problems in modern science and engineering The authors of each chapter present a research problem techniques suitable for solving it and a discussion of the results obtained These volumes will be of interest to both theoretical and application oriented individuals in academia and industry Papers in Volume I are dedicated to active and open areas of research in algebra analysis operations research and statistics and those of Volume II consider differential equations fluid mechanics and graph theory Recent Developments in Algebra and Analysis Ho-Hon Leung,R. Sivaraj,Firuz Kamalov,2024-02-22 This volume collects the proceedings of the International Conference on Recent Developments in Mathematics ICRDM held at Canadian University Dubai UAE in August 2022 It is the first of two volumes this first volume focuses on recent advances in algebra and analysis and the second volume covers more applied topics Each chapter identifies existing challenges in these theoretical areas and highlights the importance of establishing new theorems and algorithms to address them Recent Developments in Algebra and Analysis will appeal to a range of postgraduate students and researchers who are interested in exploring more on these areas and play an integral role in modern science

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Intelligent System and Informatics (AISI2015), November 28-30, 2015, Beni Suef, Egypt Tarek Gaber, Aboul Ella Hassanien, Nashwa El-Bendary, Nilanjan Dey, 2015-11-09 The conference topics address different theoretical and practical aspects and implementing solutions for intelligent systems and informatics disciplines including bioinformatics computer science medical informatics biology social studies as well as robotics research The conference also discuss and present solutions to the cloud computing and big data mining which are considered hot research topics The conference papers discussed different topics techniques models methods architectures as well as multi aspect domain specific and new solutions for the above disciplines The accepted papers have been grouped into five parts Part I Intelligent Systems and Informatics addressing topics including but not limited to medical application predicting student performance action classification and detection of dead stained microscopic cells optical character recognition plant identification rehabilitation of disabled people Part II Hybrid Intelligent Systems addressing topics including but not limited to EMG signals text classification geomagnetic inverse problem email filtering Part III Multimedia Computing and Social Networks addressing topics including but not limited to augmented reality telepresence robot video flash matting community detection quality images face thermal image extraction MRI tumor segmentation Part V Cloud Computing and Big Data Mining discussing topics including but not limited to mining on microblogs query optimization big data classification access control friendsourcing and assistive technology Part VI Swarm Optimization and Its Applications addressing topics including but not limited to solving set covering problem adaptive PSO for CT liver segmentation water quality assessment attribute reduction fish detection solving manufacturing cell design problem

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