

Station 3: Solving Quadratic Equations

Part A: Complete each problem by FACTORING.

1. Find the real zeros of $f(x) = 2x^2 + 15x + 18$.

$$0 = 2x^2 + 15x + 18$$

$$0 = (2x + 3)(x + 6)$$

$$x = -\frac{3}{2} \text{ or } -6$$

2. Solve $9x^2 - 10x + 5 = 0$.

$$9x^2 - 10x - 5 = 0$$

$$(3x - 5)(3x + 1) = 0$$

$$x = \frac{5}{3} \text{ or } -\frac{1}{3}$$

3. A box has a base that measures 3 inches by 5 inches, and a height of 11 inches. Increasing each dimension of the base by the same amount causes the volume of the box to increase by 528 cubic inches.

- a. Using x as the amount that each dimension of the base is increased by, write an expression for the volume of the box. Let x be the increase in each dimension of the base in inches.

$$11(3+x)(5+x)$$

- b. Use the original measurements and the expression you wrote in part (a) to write an equation that can be used to find the amount by which each dimension of the base increased.

$$(3)(5)(11) + 528 = 11(3+x)(5+x)$$

- c. Solve the equation in part (b) and interpret the solutions in the context of the problem.

$$165 + 528 = 11(3+x)(5+x)$$

$$693 = 11(3+x)(5+x)$$

$$63 = (3+x)(5+x)$$

$$15 + 8x + x^2 = 63$$

$$x^2 + 8x - 48 = 0$$

$$(x+12)(x-4) = 0$$

$$x = -12 \text{ or } 4$$

Each dimension of the base is increased by 4 in.

Part B: Complete each problem.

4. Consider $9x^2 - 12x + 9 = -50$.

- a. Determine how many and what type of solutions the equation has.

$$9x^2 - 12x + 9 = -50 \quad (-12)^2 - 4(9)(9) = 144 - (36)(9) < 0$$

2 imaginary solutions

- b. Find those solutions by completing the square.

$$9x^2 - 12x + 9 = -50$$

$$9x^2 - 12x = -59$$

$$x^2 - \frac{4}{3}x = -\frac{59}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{59}{9} + \frac{16}{9}$$

$$x^2 - \frac{4}{3}x + \frac{16}{9} = -\frac{43}{9}$$

$$(x - \frac{2}{3})^2 = -\frac{43}{9}$$

$$x - \frac{2}{3} = \pm \frac{\sqrt{43}}{3}$$

$$x = \frac{2}{3} \pm \frac{\sqrt{43}}{3}$$

5. A rocket is shot into the air from a 168-foot-high platform with an initial velocity of 68 feet per second.

- a. Use the quadratic formula to determine how much time the rocket is in the air before landing at ground level.

$$h(t) = -16t^2 + 68t + 168$$

$$t = \frac{-68 \pm \sqrt{68^2 - 4(-16)(168)}}{2(-16)} = -1.5 \text{ or } 7$$

the rocket landed after 7 seconds

- b. Could the factoring method have been used to answer the question above? Explain.

Yes, because solutions are rational

Algebra Nation Polynomial Operations Answer Key

Terry C. Jones



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Takayama, Jan Verschelde, 2008-05-29 Algorithms in algebraic geometry go hand in hand with software packages that implement them Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications Over the past fifteen years several excellent general purpose packages for computations in algebraic geometry have been developed such as CoCoA Singular and Macaulay 2 While these packages evolve continuously incorporating new mathematical advances they both motivate and demand the creation of new mathematics and smarter algorithms This volume reflects the workshop Software for Algebraic Geometry held in the week from 23 to 27 October 2006 as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA The papers in this volume describe the software packages Bertini PHClib Gfan DEMiCs SYNAPS TrIm Gambit ApaTools and the application of Risa Asir to a conjecture on multiple zeta values They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications *Publications* United States. National

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National Bureau of Standards, 1978 Publications of the National Bureau of Standards United States. National Bureau of Standards, 1978 *Post-Quantum Cryptography* Johannes Buchmann, Jintai Ding, 2008-10-09 This book constitutes the

refereed proceedings of the Second International Workshop on Post Quantum Cryptography PQCrypto 2008 held in Cincinnati OH USA in October 2008 The 15 revised full papers presented were carefully reviewed and selected from numerous submissions Quantum computers are predicted to break existing public key cryptosystems within the next decade Post quantum cryptography is a new fast developing area where public key schemes are studied that could resist these emerging attacks The papers present four families of public key cryptosystems that have the potential to resist quantum computers the code based public key cryptosystems the hash based public key cryptosystems the lattice based public key cryptosystems and the multivariate public key cryptosystems **Automated Technology for Verification and Analysis S.**

Akshay, Aina Niemetz, Sriram Sankaranarayanan, 2025-02-11 The two volume set 15054 15055 constitutes the refereed proceedings of the 22nd International Symposium on Automated Technology for Verification and Analysis ATVA 2024 held in Kyoto Japan from October 21 25 2024 The 24 full papers presented in this volume were carefully reviewed and selected from 73 submissions The topics presented in these volumes are organized in the following topical sections Part I Invited Keynote and Tutorial Papers Automata and Games Concurrent and Distributed Systems Learning for Verification and Synthesis Part II Synthesis and Runtime Verification Software Verification and Programming Language Semantics Automated Reasoning and Verification **Miscellaneous Publication - National Bureau of Standards** United States. National Bureau of

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Miscellaneous Publication ,1965 *Modeling of Responsive Supply Chain* M.K. Tiwari,B. Mahanty,S. P. Sarmah,M. Jenamani,2016-04-19 A guide to help readers meet the demands of an evolving competitive business environment Modeling of Responsive Supply Chain outlines novel concepts and strategies for implementing a fully integrated system of business improvement methodologies This self contained reference covers various key aspects of supply chain management which is crucial to boosting industrial growth in the face of expanding globalization in the manufacturing and transportation sectors The book focuses on topics that could potentially improve the free flow of goods and services between nations by helping users assess the performance of logistic systems deployed to achieve this end Chapters present a conventional and evolutionary approach to coordinating all elements of the supply chain to optimize an enterprise s competitive advantage The authors explore different models associated with transportation facility location and assignments as well as planning and scheduling They also address diverse technologies such as RFID tags used to monitor product flow within the supply chain network This book addresses the importance of Recognizing responsiveness as a metric of supply chain performance Domain interfaces for solving the optimization problem by making supply chains more responsive Coordination through contracts to enhance responsiveness System dynamics methodology to achieve responsiveness as well as management principles control theory and computer simulation The use of different types of technologies to build a better supply chain that achieves higher responsiveness Few if any single volumes provide the detailed explanation of practical and conceptual approaches found in this book Summaries of Projects Completed National Science Foundation (U.S.),

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