

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Band: \_\_\_\_\_  
Algebra 2

### Polynomial Functions Performance Task

Instructions: Choose one performance task. Write all your work on a separate clean piece of paper and attach it to this page.

#### Big Idea: Function

You can represent quantities using variables and algebraic expressions. You can represent some relationships between quantities using equations.

##### Performance Task 1

The polynomial  $2x^3 + 9x^2 + 4x - 15$  represents the volume in cubic feet of a rectangular holding tank at a fish hatchery. The depth of the tank is  $(x - 1)$  feet. The length is 13 feet.

- Use synthetic division to help you factor the volume polynomial. How many linear factors should you look for? What are they?
- Assume the length is the greatest dimension. Which linear factor represents the 13-ft length? What are the dimensions of the tank?
- What is the volume? Do you get the same volume if you substitute the value of  $x$  into  $2x^3 + 9x^2 + 4x - 15$ ?

#### Big Idea: Equivalence

You can use the Binomial Theorem and properties of algebra to rewrite some powers.

##### Performance Task 2

Show that the following equation is true for all values of  $a$  and  $b$ .

$$[(a - b) + 1]^5 = a^5 - 5a^4(b - 1) + 10a^3(b - 1)^2 - 10a^2(b - 1)^3 + 5a(b - 1)^4 - (b - 1)^5$$

#### Big Idea: Solving Equations and Inequalities

A polynomial  $P(x)$  of degree  $n$ ,  $n \geq 1$ , and its related polynomial function  $y = P(x)$  have  $n$  complex zeros. The zeros are identical to the  $n$  complex roots of the related polynomial equation  $P(x) = 0$ .

##### Performance Task 3

All of the following polynomials have two zeros in common. Find these zeros. Use that information to completely factor each polynomial. Then find the real and complex roots of each polynomial. Show all your work.

$$P_1(x) = x^3 - 6x^2 + 11x - 6$$

$$P_2(x) = x^4 - 3x^3 - 7x^2 - 3x + 6$$

$$P_3(x) = 2x^4 - 9x^3 + 6x^2 + 11x - 6$$

$$P_4(x) = x^4 - 6x^3 + 10x^2 - x - 6$$

$$P_5(x) = x^4 - 7x^3 + 17x^2 - 17x + 6$$

# Performance Task On Polynomial Functions

**Michael Perkins, Sara Howard**



## **Performance Task On Polynomial Functions:**

**Performing Data Analysis Using IBM SPSS** Lawrence S. Meyers, Glenn C. Gamst, A. J. Guarino, 2013-07-17 Features easy to follow insight and clear guidelines to perform data analysis using IBM SPSS Performing Data Analysis Using IBM SPSS uniquely addresses the presented statistical procedures with an example problem detailed analysis and the related data sets Data entry procedures variable naming and step by step instructions for all analyses are provided in addition to IBM SPSS point and click methods including details on how to view and manipulate output Designed as a user's guide for students and other interested readers to perform statistical data analysis with IBM SPSS this book addresses the needs level of sophistication and interest in introductory statistical methodology on the part of readers in social and behavioral science business health related and education programs Each chapter of Performing Data Analysis Using IBM SPSS covers a particular statistical procedure and offers the following an example problem or analysis goal together with a data set IBM SPSS analysis with step by step analysis setup and accompanying screen shots and IBM SPSS output with screen shots and narrative on how to read or interpret the results of the analysis The book provides in depth chapter coverage of IBM SPSS statistical output Descriptive statistics procedures Score distribution assumption evaluations Bivariate correlation Regressing predicting quantitative and categorical variables Survival analysis t Test ANOVA and ANCOVA Multivariate group differences Multidimensional scaling Cluster analysis Nonparametric procedures for frequency data Performing Data Analysis Using IBM SPSS is an excellent text for upper undergraduate and graduate level students in courses on social behavioral and health sciences as well as secondary education research design and statistics Also an excellent reference the book is ideal for professionals and researchers in the social behavioral and health sciences applied statisticians and practitioners working in industry [FTCE Mathematics 6-12 \(026\) 3rd Ed., Book + Online](#) Sandra Rush, 2018-10-20 REA's FTCE Mathematics 6 12 026 Test Prep with Online Tests Gets You Certified and in the Classroom Updated Third Edition This new third edition of our FTCE Mathematics 6 12 test prep is designed to help you master the competencies tested on this challenging exam It's perfect for teacher education students and career changing professionals who are need certification to teach mathematics in Florida's secondary schools Written by Sandra Rush M A math test expert author tutor and private test prep coach our test prep covers all the relevant topics with expert score raising strategies developed just for the FTCE Math test Our targeted review covers the 10 competencies tested knowledge of algebra advanced algebra functions geometry coordinate geometry trigonometry statistics and probability calculus mathematical reasoning and instruction and assessment End of chapter practice reinforces key concepts and helps you evaluate your overall understanding of the subject An online diagnostic test pinpoints your strengths and weaknesses so you can focus your study on the topics where you need the most review Two full length practice tests available in the book and online offer realistic practice and are balanced to include every type of question and skill tested on the actual exam Our online tests are offered in a timed format with automatic

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Privacy-Preserving in Mobile Crowdsensing Chuan Zhang,Tong Wu,Youqi Li,Liehuang Zhu,2023-03-24 Mobile crowdsensing is a new sensing paradigm that utilizes the intelligence of a crowd of individuals to collect data for mobile purposes by using their portable devices such as smartphones and wearable devices Commonly individuals are incentivized to collect data to fulfill a crowdsensing task released by a data requester This sensing as a service elaborates our knowledge of the physical world by opening up a new door of data collection and analysis However with the expansion of mobile crowdsensing privacy issues urgently need to be solved In this book we discuss the research background and current research process of privacy protection in mobile crowdsensing In the first chapter the background system model and threat model of mobile crowdsensing are introduced The second chapter discusses the current techniques to protect user privacy in mobile crowdsensing Chapter three introduces the privacy preserving content based task allocation scheme Chapter four further introduces the privacy preserving location based task scheme Chapter five presents the scheme of privacy preserving truth discovery with truth transparency Chapter six proposes the scheme of privacy preserving truth discovery with truth hiding Chapter seven summarizes this monograph and proposes future research directions In summary this book introduces the following techniques in mobile crowdsensing 1 describe a randomizable matrix based task matching method to protect task privacy and enable secure content based task allocation 2 describe a multi clouds randomizable matrix based task matching method to protect location privacy and enable secure arbitrary range queries and 3 describe privacy preserving truth discovery methods to support efficient and secure truth discovery These techniques are vital to the rapid development of privacy preserving in mobile crowdsensing

**(NAS Colloquium) Neuroimaging of Human Brain Function** Proceedings of the National Academy of Sciences,1998-02-01 The colloquium on Imaging of Cognitive Function speaks to the many audiences whose interests relate to efforts to map cognitive processes in the human brain There are things of great interest in this collection of papers for specialists in cognition and neuroscience and imaging science as well as in disciplines interested in human development through education and training and others with intrinsic interest in the latest information on how the human brain supports thought The papers were presented at a meeting sponsored by the National Academy of Sciences in its western home the Beckman Center at the University of California Irvine

Image and Signal Processing Alamin Mansouri,Abderrahim El Moataz,Fathallah Nouboud,Driss Mammass,2018-06-29 This book constitutes the refereed proceedings of the 8th International Conference on Image and Signal Processing ICISP 2018 held in Cherbourg France in July 2018 The 58 revised full papers were carefully reviewed and selected from 122 submissions The contributions report on the latest developments in image and signal processing video processing computer vision multimedia

and computer graphics and mathematical imaging and vision      *Algorithms and Architectures for Parallel Processing*  
Guojun Wang,Albert Zomaya,Gregorio Martinez,Kenli Li,2015-11-16 This four volume set LNCS 9528 9529 9530 and 9531 constitutes the refereed proceedings of the 15th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2015 held in Zhangjiajie China in November 2015 The 219 revised full papers presented together with 77 workshop papers in these four volumes were carefully reviewed and selected from 807 submissions 602 full papers and 205 workshop papers The first volume comprises the following topics parallel and distributed architectures distributed and network based computing and internet of things and cyber physical social computing The second volume comprises topics such as big data and its applications and parallel and distributed algorithms The topics of the third volume are applications of parallel and distributed computing and service dependability and security in distributed and parallel systems The covered topics of the fourth volume are software systems and programming models and performance modeling and evaluation

*U.S. Government Research Reports* ,1964      New Directions In Language Development And Disorders Michael Perkins,Sara Howard,2012-12-06 Research into child language development is being conducted more extensively by more people and in more countries throughout the world than at any point in the past We now know more than we ever did before about the linguistic cognitive neurobio logical and social capacities that children bring to their language learning task as well as the ways in which these capacities interact with a whole range of factors present in the child s environment throughout the learning process not least the particular character istics of the language or languages to which the child is exposed Far from inducing a sense of complacency this new knowledge seems instead to create an even stronger impetus to know more This is partly because of the new and unforeseen questions it raises and partly because of competition between different theories to provide the best explanation of the phenomenon and which in turn engender different methods of enquiry This volume addresses many of the key issues which are currently exercising the minds of child language researchers and which are likely to motivate research for some years to come The chapters included here all previously unpublished present a great deal of new data and address a range of theoretical issues from a variety of perspectives      International Encyclopedia of Ergonomics and Human Factors - 3 Volume Set Informa Healthcare,Waldemar Karwowski,2006-03-15 The previous edition of the International Encyclopedia of Ergonomics and Human Factors made history as the first unified source of reliable information drawn from many realms of science and technology and created specifically with ergonomics professionals in mind It was also a winner of the Best Reference Award 2002 from the Engineering Libraries      **Artificial Intelligence and Machine Learning** Dr. Monica P. Goud,Dr. Alkawati Magadum,2024-12-25 Artificial Intelligence and Machine Learning exploring the principles techniques and applications of AI and ML It fundamental concepts such as neural networks deep learning and natural language processing providing insights into their real world impact across industries The key algorithms model training and ethical considerations making it suitable for students researchers and professionals With a focus on both

theoretical foundations and practical implementations this resource equips readers with the knowledge to understand develop and apply AI driven solutions in various domains from healthcare to finance and autonomous systems

**Hard Real-Time Computing Systems** Giorgio C Buttazzo, 2007-08-19 Real time computing plays a crucial role in our society since an increasing number of complex systems rely in part or completely on processor control Examples of applications that require real time computing include nuclear power plants railway switching systems automotive electronics air traffic control telecommunications robotics and military systems In spite of this large application domain most of the current real time systems are still designed and implemented using low level programming and empirical techniques without the support of a scientific methodology This approach results in a lack of reliability which in critical applications may cause serious environmental damage or even loss of life This book is a basic treatise on real time computing with particular emphasis on predictable scheduling algorithms The main objectives of the book are to introduce the basic concepts of real time computing illustrate the most significant results in the field and provide the basic methodologies for designing predictable computing systems useful in supporting critical control applications The book is written for instructional use and is organized to enable readers without a strong knowledge of the subject matter to quickly grasp the material Technical concepts are clearly defined at the beginning of each chapter and algorithm descriptions are reinforced through concrete examples illustrations and tables

*ROMANSY 21 - Robot Design, Dynamics and Control* Vincenzo Parenti-Castelli, Werner Schiehlen, 2016-06-29 This proceedings volume contains papers that have been selected after review for oral presentation at ROMANSY 2016 the 21th CISM IFToMM Symposium on Theory and Practice of Robots and Manipulators These papers cover advances on several aspects of the wide field of Robotics as concerning Theory and Practice of Robots and Manipulators ROMANSY 2016 is the 21st event in a series that started in 1973 as one of the first conference activities in the world on Robotics The first event was held at CISM International Centre for Mechanical Science in Udine Italy on 5-8 September 1973 It was also the first topic conference of IFToMM International Federation for the Promotion of Mechanism and Machine Science and it was directed not only to the IFToMM community

*Intelligent Computing in Signal Processing and Pattern Recognition* De-Shuang Huang, George William Irwin, 2006-09-08 This 1179 page book assembles the complete contributions to the International Conference on Intelligent Computing ICIC 2006 one volume of Lecture Notes in Computer Science LNCS one of Lecture Notes in Artificial Intelligence LNAI one of Lecture Notes in Bioinformatics LNBI and two volumes of Lecture Notes in Control and Information Sciences LNCIS Include are 149 revised full papers and a Special Session on Computing for Searching Strategies to Control Dynamic Processes

**Proceedings of the International Conference on Cybernetics and Society, Tokyo-Kyoto, Japan, November 3-7, 1978**, 1979

**Immersive Video Technologies** Giuseppe Valenzise, Martin Alain, Emin Zeman, Cagri Ozcinar, 2022-09-29 Get a broad overview of the different modalities of immersive video technologies from omnidirectional video to light fields and volumetric video from a multimedia processing perspective

From capture to representation coding and display video technologies have been evolving significantly and in many different directions over the last few decades with the ultimate goal of providing a truly immersive experience to users After setting up a common background for these technologies based on the plenoptic function theoretical concept Immersive Video Technologies offers a comprehensive overview of the leading technologies enabling visual immersion including omnidirectional 360 degrees video light fields and volumetric video Following the critical components of the typical content production and delivery pipeline the book presents acquisition representation coding rendering and quality assessment approaches for each immersive video modality The text also reviews current standardization efforts and explores new research directions With this book the reader will a gain a broad understanding of immersive video technologies that use three different modalities omnidirectional video light fields and volumetric video b learn about the most recent scientific results in the field including the recent learning based methodologies and c understand the challenges and perspectives for immersive video technologies Describes the whole content processing chain for the main immersive video modalities omnidirectional video light fields and volumetric video Offers a common theoretical background for immersive video technologies based on the concept of plenoptic function Presents some exemplary applications of immersive video technologies

**Analysis of Variance in Experimental Design** Harold R. Lindman, 2012-12-06 As an introductory textbook on the analysis of variance or a reference for the researcher this text stresses applications rather than theory but gives enough theory to enable the reader to apply the methods intelligently rather than mechanically Comprehensive and covering the important techniques in the field including new methods of post hoc testing The relationships between different research designs are emphasized and these relationships are exploited to develop general principles which are generalized to the analyses of a large number of seemingly different designs Primarily for graduate students in any field where statistics are used

*ECGBL 2017 11th European Conference on Game-Based Learning*, 2017-10-05

*Thermal Energy Systems* Steven G. Penoncello, 2018-09-19 Thermal Energy Systems Design and Analysis Second Edition presents basic concepts for simulation and optimization and introduces simulation and optimization techniques for system modeling This text addresses engineering economy optimization hydraulic systems energy systems and system simulation Computer modeling is presented and a companion website provides specific coverage of EES and Excel in thermal fluid design Assuming prior coursework in basic thermodynamics and fluid mechanics this fully updated and improved text will guide students in Mechanical and Chemical Engineering as they apply their knowledge to systems analysis and design and to capstone design project work

*Advances in Mechanism and Machine Science* Tadeusz Uhl, 2019-06-13 This book gathers the proceedings of the 15th IFToMM World Congress which was held in Krakow Poland from June 30 to July 4 2019 Having been organized every four years since 1965 the Congress represents the world's largest scientific event on mechanism and machine science MMS The contributions cover an extremely diverse range of topics including biomechanical engineering computational kinematics

design methodologies dynamics of machinery multibody dynamics gearing and transmissions history of MMS linkage and mechanical controls robotics and mechatronics micro mechanisms reliability of machines and mechanisms rotor dynamics standardization of terminology sustainable energy systems transportation machinery tribology and vibration Selected by means of a rigorous international peer review process they highlight numerous exciting advances and ideas that will spur novel research directions and foster new multidisciplinary collaborations

**The Handbook of Artificial Intelligence**  
Avron Barr, Edward A. Feigenbaum, Paul R. Cohen, 1981

What is a heuristic problem solving program How do computers understand English What are semantic nets or frames Can computer programs outperform human experts Such questions asked by scientists engineers students and hobbyists encountering Artificial Intelligence for the first time can now be readily answered by The Handbook of Artificial Intelligence a work which makes the full scope of important techniques and concepts of AI available for the first time to the rapidly expanding world of computer technologists and users The scope of this handbook is broad over 200 short articles covering all of the important ideas techniques and systems developed during 25 years of research in the AI field The articles are written for people with no background in AI Some articles serve as overviews discussing the various approaches within a subfield the issues and the problems The handbook is a reference work a textbook a guide to programming techniques and to the extensive literature of the field and a book for intellectual browsing Jargon has been eliminated in each of the short penetrating articles and the hierarchical organization of the book allows readers to choose how deeply they wish to delve into a particular subject Conceived and produced at Stanford University's Department of Computer Science with contributions from universities and laboratories across the nation The Handbook of Artificial Intelligence promises to become the standard reference work in the rapidly growing AI field Jacket

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will need to put in series a small resistance of  $0.5\ \Omega$  to simulate the small resistance in a battery

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