

Algebra 2

Section 8.1: Investigation of Polynomial Graphs

10. Class let [Andrew's answer](#) to "What's Graphing?"

11. Design at least four such polynomial graphs:

(a) Polynomial graphs each of the following polynomial functions:

$$\begin{aligned} f(x) &= x^2 && \text{graph: parabola opening up with } y\text{-int at } (0,0) \\ g(x) &= x^3 \\ h(x) &= x^4 \\ k(x) &= x^5 \end{aligned}$$

(b) Polynomial graphs each of the following polynomial functions:

$$\begin{aligned} f(x) &= x^3 + 3x^2 + 3x + 1 && \text{graph: this one for speed! (try } x = 2, 3, 4, \dots, 10) \\ g(x) &= 3x^3 + 3x^2 + 3x + 1 \\ h(x) &= x^3 + 3x^2 + 3x^2 + 3x^2 + 3x^2 + 1 \end{aligned}$$

(c) Polynomial graphs each of the following polynomial functions:

$$\begin{aligned} f(x) &= x^3 \\ g(x) &= x^4 && \text{graph: parabola opening up with } y\text{-int at } (0,0) \\ h(x) &= x^5 \\ k(x) &= x^6 \end{aligned}$$

(d) Polynomial graphs each of the following polynomial functions:

$$\begin{aligned} f(x) &= 3x^3 + 1 \\ g(x) &= x^3 + 3x^2 + 3x + 1 && \text{graph: this one for speed! (try } x = 2, 3, 4, \dots, 10) \\ h(x) &= x^3 + 3x^2 + 3x \end{aligned}$$

12. Compare these graphs (colored for clarity) representing 4 such specifically odd, specifically even

odd/even functions algebraically to their polynomial equations, and what kinds of insights do they reveal about the relationship, respectively?

Answers Investigation 1 The Shapes Of Algebra

Sabine Zange



Answers Investigation 1 The Shapes Of Algebra:

Math Amazements Pamela Marx, 2006 A wide ranging collection of maths activities to get the reader thinking about geometry symmetry topology maths history number properties probability ratios puzzles and games Suggested level primary intermediate junior secondary Investigations, Tasks, and Rubrics to Teach and Assess Math Pat Lilburn, Alex Ciurak, 2010 Provides opportunities for engaging differentiated open ended problem solving experiences Features more than two hundred tasks grouped by content standards that reflect the NCTM Standards and the NCTM Curriculum Focal Points **Abstract**

Algebra Jonathan K. Hodge, Steven Schlicker, Ted Sundstrom, 2023-12-19 Abstract Algebra An Inquiry Based Approach Second Edition not only teaches abstract algebra but also provides a deeper understanding of what mathematics is how it is done and how mathematicians think The second edition of this unique flexible approach builds on the success of the first edition The authors offer an emphasis on active learning helping students learn algebra by gradually building both their intuition and their ability to write coherent proofs in context The goals for this text include Allowing the flexibility to begin the course with either groups or rings Introducing the ideas behind definitions and theorems to help students develop intuition Helping students understand how mathematics is done Students will experiment through examples make conjectures and then refine or prove their conjectures Assisting students in developing their abilities to effectively communicate mathematical ideas Actively involving students in realizing each of these goals through in class and out of class activities common in class intellectual experiences and challenging problem sets Changes in the Second Edition Streamlining of introductory material with a quicker transition to the material on rings and groups New investigations on extensions of fields and Galois theory New exercises added and some sections reworked for clarity More online Special Topics investigations and additional Appendices including new appendices on other methods of proof and complex roots of unity Encouraging students to do mathematics and be more than passive learners this text shows students the way mathematics is developed is often different than how it is presented definitions theorems and proofs do not simply appear fully formed mathematical ideas are highly interconnected and in abstract algebra there is a considerable amount of intuition to be found

Math for All Participant Book (3-5) Babette Moeller, Barbara Dubitsky, Marvin Cohen, 2011-08-22 A joint publication with Educational Development Center and Bank Street College of Education **Munchable Math, eBook**, 2000-10-30

The Earth: Teacher/Student Book Tom DeRosa, Carolyn Reeves, 2010-11 The combined Teacher's Guide and Student Journal includes insights and suggestions to help you in more effectively working with your student *Investigations in Mathematics Education*, 1976 **Math and Nonfiction** Jennifer M. Bay-Williams, Sherri L. Martinie, 2008 Provides lessons that link mathematics with nonfiction Topics include collecting and analyzing data using proportional reasoning and exploring linear and exponential growth probability and relationships between two and three dimensional objects pi and more Each lesson includes an overview of the nonfiction title a discussion of the lesson's mathematical focus a description of

the activity and samples of student work Provided by publisher Framework Maths David Capewell,2004 This book offers all you need to implement effective lessons whatever your expertise BLObjectives and useful resources identified at the start so that you can plan aheadBLPractical support for the three part lesson including mental startersBLExercise commentary so you can differentiate effectively even within ability groupsBLCommon misconceptions highlighted so you can helpstudents overcome difficultiesBLLots of ideas for engaging activities and investigationsBLReference to materials on CD ROM such as ICT activities OHTs and homeworkBLLeading to the 6 8 tier of entry in the NC LeveltestsBLUnits in the Summer term help bridge to GCSE *New National Framework Mathematics 8+ Pupil's Book* M. J. Tipler,2003 This series for Grade 6 9 mathematics has been written to match the Framework for teaching mathematics Comprising parallel resources for each year and covering all ability levels it has a consistent but fully differentiated approach *Glencoe Algebra 1* Glencoe,1997-03 **Computers and the Primary Curriculum, 3-13** Rob Crompton,1989 Grade level 3 4 5 6 7 8 9 10 11 12 p e i s t *Numeracy Support Pack 9-2* Wendy Fortescue Hubbard,2002 This series of resources provides comprehensive support for the Framework for Teaching Mathematics for Year 9 with particular emphasis on a three part mathematics lesson The materials are fully linked to Key Maths and address the beginning and end of the typical lesson structure outlined in the Framework The activities within the packs provide a variety of presentational models including opportunities for interactive oral work direct teaching and paired or group activity work to encourage pupils to engage in mathematical conversation The packs allow teachers to build resources such as number cards and fans A wide range of data sets graphs tables and examples are included for photocopying or use on an OHP Project Independence United States. Federal Energy Administration,1974 **Project Independence: Denver, Colorado, Aug. 6-9, 1974** ,1974 *Project Independence Blue Print* United States. Federal Energy Administration,1974 **Core Mathematics for IGCSE** David Rayner,2000 This text offers key facts worked examples international contexts questions including those from past exam papers in built revision and full coverage of IGCSE syllabuses for secondary maths pupils in overseas schools taking IGCSE **CliffsNotes AP Biology 2021 Exam** Phillip E. Pack,2020-08 CliffsNotes AP Biology 2021 Exam gives you exactly what you need to score a 5 on the exam concise chapter reviews on every AP Biology subject in depth laboratory investigations and full length model practice exams to prepare you for the May 2021 exam Revised to even better reflect the new AP Biology exam this test prep guide includes updated content tailored to the May 2021 exam Features of the guide focus on what AP Biology test takers need to score high on the exam Reviews of all subject areas In depth coverage of the all important laboratory investigations Two full length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint problem areas **Common Core Math Workouts, Grade 6** Karice Mace,Keegen Gennuso,2014-01-15 Each page in Common Core Math Workouts for grade 6 contains two workouts one for skills practice and one for applying those skills to solve a problem These workouts make great warm up or assessment exercises They can be used to set the stage and teach

the content covered by the standards They can also be used to assess what students have learned after the content has been taught Content is aligned with the Common Core State Standards for Mathematics and includes Geometry Ratio and Proportional Relationships The Number System Expressions and Equations and Statistics and Probability The workbooks in the Common Core Math Workouts series are designed to help teachers and parents meet the challenges set forth by the Common Core State Standards They are filled with skills practice and problem solving practice exercises that correspond to each standard With a little time each day your students will become better problem solvers and will acquire the skills they need to meet the mathematical expectations for their grade level

Strategies for Common Core Mathematics Leslie Texas, Tammy Jones, 2013-11-20 This new practical book provides an explanation of each of the eight mathematical practices and gives high school educators specific instructional strategies that align with the Common Core State Standards for Mathematics Math teachers curriculum coordinators and district math supervisors get practical ideas on how to engage high school students in mathematical practices develop problem solving skills and promote higher order thinking Learn how to scaffold activities across grades and get strategies you can implement immediately in your classroom All high school mathematics educators should have this book in their professional libraries

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