

Polynomial Functions

Each function below is called a polynomial function. Sketch the graph of each. There is the graph provided to the right, explain the similarities and differences among members of the family.

1) Quadratic (degree 2) functions

A) $f(x) = x^2$



B) $f(x) = x^2 - 4x + 4$



C) $f(x) = -x^2 + 4x$

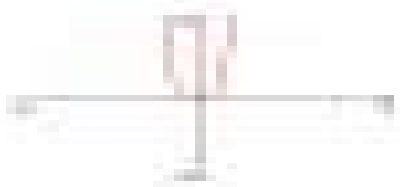


Similarities/Differences:

These graphs are all parabolas. They are all symmetric about the y-axis. They all have a vertex at (0,0). They all have a minimum at (0,0).

2) Cubic (degree 3) functions

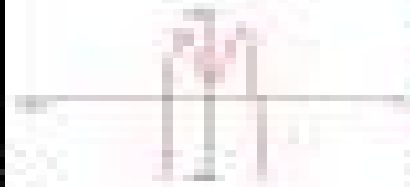
A) $f(x) = x^3$



B) $f(x) = x^3 - 4x^2 + 4x$



C) $f(x) = -x^3 + 4x^2 - 4x$



Similarities/Differences:

These graphs are all cubic curves. They are all symmetric about the y-axis. They all have a vertex at (0,0). They all have a minimum at (0,0).

3) Quartic (degree 4) functions

A) $f(x) = x^4$



B) $f(x) = x^4 - 4x^3 + 6x^2 - 4x$



C) $f(x) = x^4 - 4x^3 + 6x^2 - 4x$



Similarities/Differences:

These graphs are all quartic curves. They are all symmetric about the y-axis. They all have a vertex at (0,0). They all have a minimum at (0,0).

4) Quintic (degree 5) functions

A) $f(x) = x^5$



B) $f(x) = x^5 - 4x^4 + 6x^3 - 4x^2$



C) $f(x) = x^5 - 4x^4 + 6x^3 - 4x^2$



Similarities/Differences:

These graphs are all quintic curves. They are all symmetric about the y-axis. They all have a vertex at (0,0). They all have a minimum at (0,0).

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Teaching and Learning High School Mathematics Charlene E. Beckmann, Denisse R. Thompson, Rheta N. Rubenstein, 2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i e teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1 1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans **Announcement** University of Michigan--Dearborn, 1975 **Mathematics Framework, Kindergarten-grade 12** Texas Education Agency, 1986 *The University of Michigan--Dearborn* University of Michigan--Dearborn, 1973 **University of Michigan Official Publication** University of Michigan, 1973 Each number is the catalogue of a specific school or college of the University **Precalculus: A Functional Approach to Graphing and Problem Solving** Karl Smith, 2013 Precalculus A Functional Approach to

Graphing and Problem Solving prepares students for the concepts and applications they will encounter in future calculus courses. In far too many texts process is stressed over insight and understanding and students move on to calculus ill equipped to think conceptually about its essential ideas. This text provides sound development of the important mathematical underpinnings of calculus stimulating problems and exercises and a well developed engaging pedagogy. Students will leave with a clear understanding of what lies ahead in their future calculus courses. Instructors will find that Smith's straightforward student friendly presentation provides exactly what they have been looking for in a text.

Precalculus with Unit-circle Trigonometry David Cohen, 1998. *Precalculus with Unit Circle Trigonometry* Third Edition by David Cohen continues to create a book that is accessible to the student through a careful progression and presentation of concepts rich problem sets and examples to help explain and motivate concepts and continual guidance through the challenging work needed to master concepts and skills. This book is identical to *Precalculus A Problems Oriented Approach* Fifth Edition with the exception of the first four chapters on trigonometry.

Resources in Education, 2001-10 **ENC Focus**, 2001 A 50-state Survey of Initiatives in Science, Mathematics and Computer Education, 1983 **Learning, Design, and Technology**

J. Michael Spector, Barbara B. Locke, Marcus D. Childress, 2023-10-14. The multiple related fields encompassed by this Major Reference Work represent a convergence of issues and topics germane to the rapidly changing segments of knowledge and practice in educational communications and technology at all levels and around the globe. There is no other comparable work that is designed not only to gather vital current and evolving information and understandings in these knowledge segments but also to be updated on a continuing basis in order to keep pace with the rapid changes taking place in the relevant fields. The Handbook is composed of substantive 5 000 to 15 000 words peer reviewed entries that examine and explicate seminal facets of learning theory research and practice. It provides a broad range of relevant topics including significant developments as well as innovative uses of technology that promote learning performance and instruction. This work is aimed at researchers designers developers instructors and other professional practitioners.

Educating Americans for the 21st Century, 1984 *Current Readings in Improvements in Curriculum*, 1972 *Striving for Excellence*, 1991

Educating Americans for the 21st Century: Source materials National Science Board (U.S.). Commission on Precollege Education in Mathematics, Science, and Technology, 1983. Leading experts in the fields of science mathematics and education present a plan for improving mathematics science and technology education for all American elementary and secondary students so that their achievement is the best in the world by 1995. The Commission believes that while individual American schools and students excel in science and mathematics the average American student is said to need a much firmer grounding at the elementary and secondary school levels. It notes that the most serious problem is a severe shortage of qualified teachers. Makes a number of recommendations and calls for stronger leadership on this issue through such means as a National Education Council reporting to the President.

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