

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.

1a) Quadratic (degree 2) functions

1a) $f(x) = x^2$



1b) $f(x) = x^2 - 4x + 4$



1c) $f(x) = -x^2 + 4x$



Similarities/Differences:

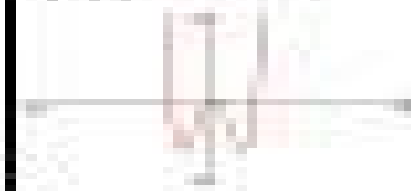
These graphs are all parabolas. They all have a vertex at (2,0) or (2,4). They all have a y-intercept at (0,0) or (0,4).

2a) Fourth degree (quartic) functions

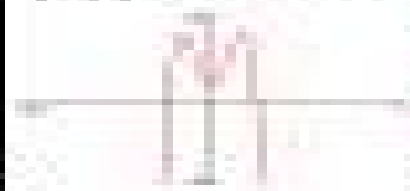
2a) $f(x) = x^4$



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



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



Similarities/Differences:

These graphs are all quartic curves. They all have a local minimum at (0,4) or a local maximum at (0,-4). They all have a y-intercept at (0,4) or (0,-4).

3a) Fifth degree (quintic) functions

3a) $f(x) = x^5$



3b) $f(x) = x^5 - 5x^3 + 5x$



3c) $f(x) = x^5 - 5x^3 + 5x$



Similarities/Differences:

These graphs are all quintic curves. They all have a local minimum at (0,0) or a local maximum at (0,0). They all have a y-intercept at (0,0).

4a) Sixth degree (sextic) functions

4a) $f(x) = x^6$



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



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



Similarities/Differences:

These graphs are all sextic curves. They all have a local minimum at (0,0) or a local maximum at (0,0). They all have a y-intercept at (0,0).

Precalculus Hs Mathematics Unit 07 Lesson Key

SJ Ball



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Pre-Calculus, Calculus, and Beyond Hung-Hsi Wu, 2020-10-26 This is the last of three volumes that together give an exposition of the mathematics of grades 9-12 that is simultaneously mathematically correct and grade level appropriate. The volumes are consistent with CCSSM Common Core State Standards for Mathematics and aim at presenting the mathematics of K-12 as a totally transparent subject. This volume distinguishes itself from others of the same genre in getting the mathematics right. In trigonometry this volume makes explicit the fact that the trigonometric functions cannot even be defined without the theory of similar triangles. It also provides details for extending the domain of definition of sine and cosine to all real numbers. It explains as well why radians should be used for angle measurements and gives a proof of the conversion formulas between degrees and radians. In calculus this volume pares the technicalities concerning limits down to the essential minimum to make the proofs of basic facts about differentiation and integration both correct and accessible to school teachers and educators; the exposition may also benefit beginning math majors who are learning to write proofs. An added bonus is a correct proof that one can get a repeating decimal equal to a given fraction by the long division of the numerator by the denominator. This proof attends to all three things all at once: what an infinite decimal is, why it is equal to the fraction, and how long division enters the picture. This book should be useful for current and future teachers of K-12 mathematics as well as for some high school students and for education professionals.

Precalculus: Functions and Graphs Mark Dugopolski, 2013-10-03 Dugopolski's *Precalculus Functions and Graphs* Fourth Edition gives students the essential strategies they need to make the transition to calculus. The author's emphasis on problem solving and critical thinking is enhanced by the addition of 900 exercises including new vocabulary and cumulative review problems. Students will find carefully placed learning aids and review tools to help them learn the math without getting distracted. Along the way students see how the algebra connects to their future calculus courses with tools like Foreshadowing Calculus and Concepts of Calculus.

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