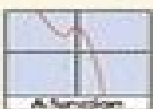
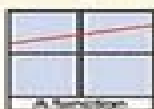
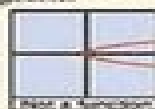
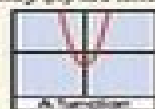


Pre-Calculus

Functions

- A function is a relation in which each element of the domain (independent variable) is paired with only one element of the range (dependent variable). In many cases x is the independent variable and y or $f(x)$ is the dependent variable. In this guide y and $f(x)$ are interchangeable.



- A relation can be tested to see whether it is a function by the vertical line test. Draw a vertical line through any graph, and if it hits an x -value more than once, it is not a function.

Linear Functions

- A function is a linear function if it can be written in the form $f(x) = mx + b$ or $y = mx + b$ where m is the slope and b is the y -intercept.

EX: $f(x) = 4x - 1$ is a linear function. The slope is $\frac{4}{1}$ (rise over run), and the y -intercept is -1 .

- The standard form of a linear function is $0 = Ax + By + C$. The slope is $m = -\frac{A}{B}$, and the y -intercept is $-\frac{C}{B}$.

- The zeros of a function are found by setting y to 0 and solving for x .

EX: Find the zeros of $f(x) = 4x - 1$.

$$0 = 4x - 1 \quad -1 = 4x \quad -\frac{1}{4} = x$$

Polynomial Functions

- A function is a polynomial function if it can be written in the form $f(x) = ax^n + bx^{n-1} + cx^{n-2} + \dots + dx + e$.

- The greatest power of a polynomial with one variable is called its degree.

- When the degree of the function is an odd integer, there is at least one real zero.

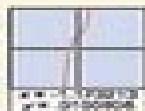
- When the degree is an even integer, there may be no real zeros.

- Both types can have imaginary roots of the form $a + bi$.

EX: $f(x) = 2x^4 + x^3 + x + 10$ has a degree of 4. There are four roots to this polynomial.

EX: $f(x) = 2x^3 + x^2 - 2x + 3$ has a degree of 3. This function has one real zero at $x = -1.17$ and two non-real roots. (see graph)

EX: $f(x) = x^2 + 1$ has a degree of 2. This function has two non-real roots. Its graph does not cross the x -axis.



Quadratic Functions

- One commonly studied polynomial function is a quadratic function.

A quadratic function takes the form $f(x) = ax^2 + bx + c$.

- The graph of a quadratic equation is a parabola.

- Some parabolas represent quadratic equations but not quadratic functions. (see graph)

- Quadratic equations can have zero, one, or two solutions.

- The vertex of a parabola is its critical point. This is where the graph changes from increasing to decreasing or from decreasing to increasing.

- The quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ can be used to find the roots of all quadratic equations.

- The value under the square root symbol is the discriminant. It tells the type of roots of a quadratic equation.

- $b^2 - 4ac > 0$, two distinct real roots

- $b^2 - 4ac = 0$, exactly one real root

- $b^2 - 4ac < 0$, no real roots (two distinct imaginary roots)

EX: Find the roots of $f(x) = x^2 - 4x + 1$.

The discriminant $b^2 - 4ac$ is $(-4)^2 - 4(1)(1) > 0$, so there are two real roots.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} = \frac{-(-4) \pm \sqrt{4^2 - 4(1)(1)}}{2(1)}$$

$$x = 3.732 \text{ and } x = 0.267$$

EX: Find the number and type of the roots of $f(x) = 2x^2 + 2x + 1$.

The discriminant is less than 0, so there are two imaginary roots. A graph of this function does not cross the x -axis.



EX: Find the number and type of the roots of $f(x) = x^2 + 2x + 1$. The discriminant is 0, so there is one real root. A graph of this function intersects the x -axis in one place, at -1 .

Rational Functions

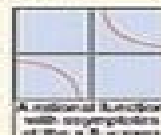
- A function is a rational function if it can be written in the form $f(x) = \frac{g(x)}{h(x)}$

EX: $f(x) = \frac{x}{x+3}$, $f(x) = \frac{2}{x}$, and $f(x) = \frac{1}{x-2} + 3$ are rational functions.

- The parent function for all rational functions is $f(x) = \frac{1}{x}$.

- The graph of the parent rational function consists of two parts, one in quadrant I and one in quadrant III.

- The branches of rational functions approach asymptotes.



Operations of Functions

- Sum: $(f + g)(x) = f(x) + g(x)$

- Difference: $(f - g)(x) = f(x) - g(x)$

- Product: $(f \cdot g)(x) = f(x) \cdot g(x)$

- Quotient: $\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)}$, $g(x) \neq 0$

EX: Given $f(x) = x + 2$ and $g(x) = \frac{x}{x-4}$

Find the difference: $(f - g)(x) = x + 2 - \frac{x}{x-4} = \frac{(x+2)(x-4) - x}{x-4} = \frac{x^2 - 3x - 8}{x-4}$, $x \neq 4$

Find the product: $(f \cdot g)(x) = (x + 2) \cdot \left(\frac{x}{x-4}\right) = \frac{x^2 + 2x}{x-4}$, $x \neq 4$

Find the quotient: $\left(\frac{f}{g}\right)(x) = \frac{x+2}{\frac{x}{x-4}} = (x+2) \cdot \left(\frac{x-4}{x}\right) = \frac{x^2 - 2x - 8}{x}$, $x \neq 0$

Composition of Functions

- $(f \circ g)(x) = f(g(x))$

EX: Given $f(x) = x + 2$ and $g(x) = \frac{x}{x-4}$, find $(f \circ g)(x)$.

$x + 2$ becomes $\left(\frac{x}{x-4}\right) + 2 = \frac{x}{x-4} + \frac{2(x-4)}{x-4} = \frac{x + 2x - 8}{x-4} = \frac{3x - 8}{x-4}$, $x \neq 4$

EX: Using the same functions, find $(g \circ f)(x)$. $\left(\frac{x}{x-4}\right)$ becomes $\frac{x+2}{x+2-4} = \frac{x+2}{x-2}$, $x \neq 2$

Inverse Functions

- To find the inverse of a function, interchange x and y and solve the equation for y .

EX: Find the inverse of $y = 3x - 2$.

Interchange x and y : $x = 3y - 2$.

$$x + 2 = 3y \quad \frac{x+2}{3} = y$$

- To show two functions are inverses, show that $(f \circ g)(x) = x$ and $(g \circ f)(x) = x$.

EX: Given $f(x) = 2x - 4$, $g(x) = \frac{x+4}{2}$, $(f \circ g)(x) = \frac{2(x+4)}{2} - 4 = x$, and

$$(g \circ f)(x) = \frac{(2x-4)+4}{2} = x$$

Families of Functions

- A parent graph is the basic graph in a family. All the other family members translate, rotate, reflect, shrink, or stretch based on changes in values.

- For a general quadratic function, $f(x) = a(x + b)^2 + c$, the following rules show how the function is transformed.

- When a is negative, the graph reflects across the x -axis.

- When a is between 0 and 1, the graph shrinks or compresses.

- When a is greater than 1, the graph expands.

- When b is positive, the graph translates to the left.

- When b is negative, the graph translates to the right.

- When c is positive, the graph translates up.

- When c is negative, the graph translates down.

Note: The parent function (in this case quadratic) could also be an absolute value function, a rational function, an exponential function, etc.

Pre Calc Reference Guide

Dennis G. Zill, Jacqueline M. Dewar



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Pre-Calculus Ken Yablonsky, 2015-12-31 Each step higher in math studies is crucial to doing well at the next level Pre Calc is the gateway to higher level mathematics of which the best degrees and careers are built upon The core essentials in 6 laminated pages can be used along with your text and lectures as a review before testing or as a memory companion that keeps key answers always at your fingertips The most answers for your money in what students have said is a must have study tool Suggested uses o Quick Reference instead of digging into the textbook to find a core answer you need while studying use the guide to reinforce quickly and repeatedly o Memory refreshing your memory repeatedly is a foundation of studying have the core answers handy so you can focus on understanding the concepts o Test Prep no student should be cramming but if you are there is no better tool for that final review

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By consistently using this approach with all the different classes of functions students become aware that the authors are always following the same general procedure and just applying that procedure to a new kind of function Throughout the text the authors emphasize the power of technology but provide numerous warnings on its limitations the authors stress that it is only through understanding the mathematical concepts that students can fully appreciate the power of graphing calculators and use technology appropriately

Practical Handbook of Spreadsheet Curves and Geometric Constructions Deane Arganbright,1993-08-03 Practical Handbook of Spreadsheet Curves and Geometric Constructions presents a compelling description of how to use commercially available spreadsheets to design and create high quality graphs of a variety of curves including classical curves in mathematics The book contains more than 65 models for the geometric construction of families of curves such as strophoids pedals involutes and others Models in the book are designed to be interactive so that users can experiment with them to produce eye catching curves designs and patterns Examples come from calculus parametric equations constructions of classical families and graphs of conformal mappings of a complex variable The author a leading authority on spreadsheets presents innovative techniques for using spreadsheet graphing to generate large families of lines and circles that describe various curves as envelopes of the families The final chapter of the book discusses the use of commercial spreadsheets to create animation effects The book is heavily illustrated with more than 200 graphs and 60 tables An accompanying 3 5 disk provides 25 selected examples written in Quattro Pro 2 0 Lotus 1 2 3 2 3 and Microsoft Excel 4 0 Designed for both experienced and novice spreadsheet users Practical Handbook of Spreadsheet Curves and Geometric Constructions will be an invaluable resource for mathematicians engineers scientists and computer scientists The book will also benefit professional artists and designers interested in learning new techniques for producing mathematical curves using spreadsheet software

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you have come **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. **Civil Engineer's Reference Book** L. S. Blake, 1994-03-21 After an examination of fundamental theories as applied to civil engineering, authoritative coverage is included on design practice for certain materials and specific structures and applications. A particular feature is the incorporation of chapters on construction and site practice including contract management and control. **Software Engineer's Reference Book** John A. McDermid, 2013-10-22 Software Engineer's Reference Book provides the fundamental principles and general approaches, contemporary information, and applications for developing the software of computer systems. The book is comprised of three main parts: an epilogue and a comprehensive index. The first part covers the theory of computer science and relevant mathematics. Topics under this section include logic, set theory, Turing machines, theory of computation, and computational complexity. Part II is a discussion of software development methods, techniques, and technology, primarily based around a conventional view of the software life cycle. Topics discussed include methods such as CORE, SSADM, and SREM, and formal methods including VDM and Z. Attention is also given to other technical activities in the life cycle, including testing and prototyping. The final part describes the techniques and standards which are relevant in producing particular classes of application. The text will be of great use to software engineers, software project managers, and students of computer science. *Reference Manual for Generation and Analysis of Habitat Time Series*, 1990

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