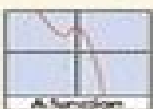
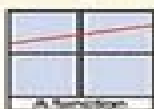
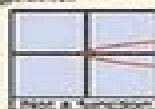
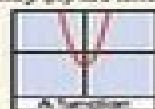


Pre-Calculus

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.



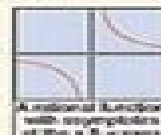
EX: Find the number and type of the roots of $f(x) = x^2 + 2x + 1$. The discriminant is 0, so there is one real root. A graph of this function intersects the x -axis in one place, at -1 .

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

Yan Bai



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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 *Reference Manual for Generation and Analysis of Habitat Time Series*, 1990 **A Graphical Approach to Precalculus** E. John Hornsby, Margaret L. Lial, 1999 This book is the culmination of many years of teaching experience with the graphing calculator In it the authors treat the standard topics of precalculus solving analytically confirming graphically and motivating through applications Throughout the first five chapters the authors present the various classes of functions studied in a standard precalculus text Chapter One introduces functions and relations using the linear function as the basis for the presentation In this chapter the authors introduce the following approach which is used throughout the next four chapters after introducing a class of function the nature of its graph is examined then the analytic solution of equations based on that function is discussed Students are then shown how to provide graphical support for solutions using a graphing calculator Having established these two methods of solving equations the authors move on to the analytic methods of solving the associated inequalities Students then learn how the analytic solutions of these inequalities can also be supported graphically Finally once the student has a

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