



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 function



Not a function



A function



A function

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.


 $x = -1.17213$
 $y = 0.00086$

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.


A rational function with asymptotes at $x = 0$ & $y = 0$.

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 $\frac{\frac{x}{x-4} + 2}{\frac{x}{x-4} - 4} = \frac{x + 2}{x - 2}$, $x \neq 2$

Inverse Functions

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

EX: Find the inverse of $y = 5x - 2$

Interchange x and y : $x = 5y - 2$

$$x + 2 = 5y \quad \frac{x+2}{5} = y$$

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

EX: Given $f(x) = 2x - 4$, $g(x) = \frac{x+4}{2}$, $(f \circ g)(x) = 2\left(\frac{x+4}{2}\right) - 4 = x$, 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, $f(x) = a(x + h)^2 + c$, 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 h is positive, the graph translates to the left.

When h 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.

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The Pre-calculus Problem Solver, 2000 Homework Helpers: Pre-Calculus Denise Szecsei, 2025-09-12 This title in the Homework Helpers series will reinforce mathematical foundations and bolster students confidence in pre calculus The concepts are explained in everyday language before the examples are worked Good habits such as checking your answers after every problem are reinforced There are practice problems throughout the book and the answers to all of the practice problems are included The problems are solved clearly and systematically with step by step instructions provided Particular attention is placed on topics that students traditionally struggle with the most While this book could be used to supplement a standard pre calculus textbook it could also be used by college students or adult learners to refresh long forgotten concepts and skills Homework Helpers Pre Calculus is a straightforward and understandable introduction to differential calculus and its applications It covers all of the topics in a typical Calculus class including Linear functions Polynomials Rational functions Exponential functions Logarithmic functions Systems of equations This book also contains a review of the pre calculus concepts that form the foundation on which calculus is built

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