

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 solution 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 w = − A/B and the y-intercept is − C/E.
- . 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.

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

Polynomial Functions

- A function is a polynomial function if it can be written in the form
 f(x) = axⁿ + bxⁿ⁺ + cxⁿ⁺ _ + ax + 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.
- $EX_{2}f(r) = 2r^{4} + r^{2} + x + 10$ has a degree of 4. There are four roots to this polynomial.
- $EXz_1f(x) = 2x^2 + x^2 2x + 3$ has a degree of 3. This function has one real zero at x = -1.17 and two non-real roots. (see graph)
- $\mathbb{E}X_2 f(x) = x^2 + 1$ 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) = ax² + 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 $x = \frac{-b + \sqrt{b^2 4av}}{2\sigma}$ can be used to find the roots of all quadratic equations.
- quadratic equations.

 The value under the square root symbol is the discriminant. It tells the type of roots of a auadratic equation.
 - b² = 4ac > 0, two distinct real roots
 - $+b^2-4ac=0$, exactly one real root
 - b² = 4ac ≤ 0, no real roots (two distinct imaginary roots).

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

The discriminant $\delta' = 4ac$ is $(-4)' = 4(1)(1) \ge 0$, so there are two real roots.

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

$$x = 3.732$$
 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 r-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) = g(x) = g(x)
 - EX: $f(x) = \frac{x}{x+3}$, $f(x) = \frac{3}{x}$, 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 beanches of rational functions approach asymptotes.

Operations of Functions

- Summ: (f + g)(x) = f(x) + g(x)
- Difference: (f g)(x) = f(x) g(x)
- Product: 0' × g)(x) = f'(x) × g(x)



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

Find the difference: $(f-g)(x) = x + 2 - \frac{x}{x-4} = \frac{(x+2)(x-4) - x}{x-4} + \frac{x^3 - 3x - 8}{x-4}$, $x \ne 4$ Find the product: $(f \ge g)(x) = (x+2) \times \left(\frac{x}{x-4}\right) = \frac{x^3 + 2x}{x}$, $x \ne 4$

Find the product: $(f \times g)(x) = (x + 2) \times \left(\frac{1}{x - 4}\right) = \frac{1}{x - 4}, x \neq 4$

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

Composition of Functions

- · [/*-g/(0x) = /*(g0x)0.
 - EX: Given f(x) = x + 2 and $g(x) = \frac{x}{x 4}$, find $(f \circ g)(x)$
- x + 2 becomes $\left(\frac{x}{x-4}\right) + 2 = \frac{x}{x-4} + \frac{2(x-4)}{x-4} = \frac{x+2x-8}{x-4} = \frac{2x-8}{x-4}, x \neq 4$
- EX: Using the same functions, find $\lfloor g_2/f \rfloor(x)$, $\left(\frac{x}{x-4}\right)$ becomes $\frac{x+2}{x+2-4} = \frac{x+2}{x-2}$, $x \ne 2$

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

 $x + 2 = 5y = \frac{x + 2}{4} = y$

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

 $\mathbf{EX}z \cdot \mathrm{Given} f(x) = 2x - 4 \cdot g(x) - \frac{x+4}{2} \cdot \left(f \circ g(x) - \frac{2\left(x+4\right)}{2} - 4 \circ x\right) \text{ and }$

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

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 it is greater than I, the graph expands.
- When his 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 national function, an exponential function, etc.

Anational function

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