

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 in 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 + bc.
- $EX_{2}f(r) = 2r^{4} + r^{2} + x + 10$ 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)
- 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) = 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 quadratic equation.
- b² = 4ac > 0, two distinct real roots
- $+b^2-4ac=0$, exactly one real root
- $b^2 = 4ac \le 0$, 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 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: $f(x) = \frac{x}{x+3}$, $f(x) = \frac{3}{x}$, 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 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: 0' × g)(x) = f'(x) × 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: $(f'-g)(x) = x + 2 - \frac{x}{x-4} = \frac{(x+2)(x+4) - x}{x-4} + \frac{x^2 - 3x - 8}{x-4}$, $x \ne 4$ Find the product: $(f' \times g)(x) = (x+2) \times \left(\frac{x}{x-4}\right) = \frac{x^2 + 2x}{x-4}$, $x \ne 4$

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

- D'eg los) = /'0g000
 - 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 $|g_2/f(x)| \left(\frac{x}{x-4}\right)$ 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 \(\text{-g}(\text{(cr)}) = x \) and \$\(\text{(g-f(\text{(cr)})} = x \).

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

Families of Functions

- A parent graph is the basic graph in a family. All the other family members translate, rotate, reflect, shrink, or stortch 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 o is greater than I, the graph expands.
- When & 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.

Anational function

with anymptoton.

and three or & progression.

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Annelies Wilder-Smith

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Table of Contents Answers For Plato Learning Pre Calculus

- 1. Understanding the eBook Answers For Plato Learning Pre Calculus
 - The Rise of Digital Reading Answers For Plato Learning Pre Calculus
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Answers For Plato Learning Pre Calculus
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Plato Learning Pre Calculus
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Answers For Plato Learning Pre Calculus
 - Personalized Recommendations
 - Answers For Plato Learning Pre Calculus User Reviews and Ratings
 - Answers For Plato Learning Pre Calculus and Bestseller Lists

- 5. Accessing Answers For Plato Learning Pre Calculus Free and Paid eBooks
 - Answers For Plato Learning Pre Calculus Public Domain eBooks
 - Answers For Plato Learning Pre Calculus eBook Subscription Services
 - Answers For Plato Learning Pre Calculus Budget-Friendly Options
- 6. Navigating Answers For Plato Learning Pre Calculus eBook Formats
 - o ePub, PDF, MOBI, and More
 - Answers For Plato Learning Pre Calculus Compatibility with Devices
 - Answers For Plato Learning Pre Calculus Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Plato Learning Pre Calculus
 - Highlighting and Note-Taking Answers For Plato Learning Pre Calculus
 - Interactive Elements Answers For Plato Learning Pre Calculus
- 8. Staying Engaged with Answers For Plato Learning Pre Calculus
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - \circ Following Authors and Publishers Answers For Plato Learning Pre Calculus
- 9. Balancing eBooks and Physical Books Answers For Plato Learning Pre Calculus
 - Benefits of a Digital Library
 - $\circ\,$ Creating a Diverse Reading Collection Answers For Plato Learning Pre Calculus
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Plato Learning Pre Calculus
 - Setting Reading Goals Answers For Plato Learning Pre Calculus
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Plato Learning Pre Calculus
 - Fact-Checking eBook Content of Answers For Plato Learning Pre Calculus
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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