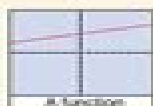


Pre-Calculus

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

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 $y = 5x - 2$

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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1. Understanding the eBook Springboard Mathematics Precalculus Unit Answers
 - The Rise of Digital Reading Springboard Mathematics Precalculus Unit Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Springboard Mathematics Precalculus Unit Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Springboard Mathematics Precalculus Unit Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Springboard Mathematics Precalculus Unit Answers
 - Personalized Recommendations
 - Springboard Mathematics Precalculus Unit Answers User Reviews and Ratings
 - Springboard Mathematics Precalculus Unit Answers and Bestseller Lists
5. Accessing Springboard Mathematics Precalculus Unit Answers Free and Paid eBooks
 - Springboard Mathematics Precalculus Unit Answers Public Domain eBooks
 - Springboard Mathematics Precalculus Unit Answers eBook Subscription Services
 - Springboard Mathematics Precalculus Unit Answers Budget-Friendly Options
6. Navigating Springboard Mathematics Precalculus Unit Answers eBook Formats

- ePub, PDF, MOBI, and More
- Springboard Mathematics Precalculus Unit Answers Compatibility with Devices
- Springboard Mathematics Precalculus Unit Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Springboard Mathematics Precalculus Unit Answers
 - Highlighting and Note-Taking Springboard Mathematics Precalculus Unit Answers
 - Interactive Elements Springboard Mathematics Precalculus Unit Answers
- 8. Staying Engaged with Springboard Mathematics Precalculus Unit Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Springboard Mathematics Precalculus Unit Answers
- 9. Balancing eBooks and Physical Books Springboard Mathematics Precalculus Unit Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Springboard Mathematics Precalculus Unit Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Springboard Mathematics Precalculus Unit Answers
 - Setting Reading Goals Springboard Mathematics Precalculus Unit Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Springboard Mathematics Precalculus Unit Answers
 - Fact-Checking eBook Content of Springboard Mathematics Precalculus Unit Answers
 - 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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