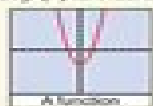




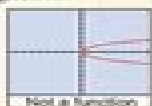
# Pre-Calculus

## Functions

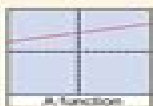
A **function** is a relation in which each element of the domain (independent variable) is paired with only one element of the range (dependent variable). In many cases  $x$  is the independent variable and  $y$  or  $f(x)$  is the dependent variable. In this guide  $y$  and  $f(x)$  are interchangeable.



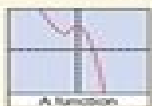
A function



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.

# Answers To Springboard Pre Cal Unit 5

**Katrin Zwirglmaier**



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**BioMath in the Schools** Margaret B. Cozzens, Fred S. Roberts, 2011 Even though contemporary biology and mathematics are inextricably linked high school biology and mathematics courses have traditionally been taught in isolation But this is beginning to change This volume presents papers related to the integration of biology and mathematics in high school classes The first part of the book provides the rationale for integrating mathematics and biology in high school courses as well as opportunities for doing so The second part explores the development and integration of curricular materials and includes responses from teachers Papers in the third part of the book explore the interconnections between biology and mathematics in light of new technologies in biology The last paper in the book discusses what works and what doesn't and presents positive responses from students to the integration of mathematics and biology in their classes *Resources in education*, 1987-02 Surgery Cohn, Stephen M. Cohn, Steven T. Brower, 2012 The esophagus Stomach Small bowel Large bowel Liver Portal hypertension Gallbladder and bile ducts Pancreas Spleen Hernia Endocrine glands Breast Chest wall mediastinum trachea Vascular system Skin and soft tissue Preoperative and postoperative care *The START Treaty in a Changed World* United States. Congress. Senate. Committee on Foreign Relations, 1992 Applied Mechanics Reviews, 1963 **School Microcomputing Bulletin**, 1983 *Feedstuffs*, 1958 Science Scope, 2002 Whitaker's Cumulative Book List, 1983 **Worldviews**, 1998 **Billboard**, 1982-11-13 In its 114th year Billboard remains the world's premier weekly music publication and a diverse digital events brand content and data licensing platform Billboard publishes the most trusted charts and offers unrivaled reporting about the latest music video gaming media digital and mobile entertainment issues and trends **Middle School Journal**, 2005 School Library Journal, 2009 **Agricultural Index**, 1951 *The Presbyterian Journal* George Aiken Taylor, 1975 *Biological & Agricultural Index*, 1951 **Traffic Safety**, 1963 *Trained Nurse and Hospital Review*, 1953 **Hospital Literature Index**, 1975 **Complete Catalogue of Plays** Dramatists Play Service (New York, N.Y.), 1999

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## **Table of Contents Answers To Springboard Pre Cal Unit 5**

1. Understanding the eBook Answers To Springboard Pre Cal Unit 5
  - The Rise of Digital Reading Answers To Springboard Pre Cal Unit 5
  - Advantages of eBooks Over Traditional Books
2. Identifying Answers To Springboard Pre Cal Unit 5
  - 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 Answers To Springboard Pre Cal Unit 5
  - User-Friendly Interface
4. Exploring eBook Recommendations from Answers To Springboard Pre Cal Unit 5
  - Personalized Recommendations
  - Answers To Springboard Pre Cal Unit 5 User Reviews and Ratings
  - Answers To Springboard Pre Cal Unit 5 and Bestseller Lists
5. Accessing Answers To Springboard Pre Cal Unit 5 Free and Paid eBooks
  - Answers To Springboard Pre Cal Unit 5 Public Domain eBooks
  - Answers To Springboard Pre Cal Unit 5 eBook Subscription Services
  - Answers To Springboard Pre Cal Unit 5 Budget-Friendly Options
6. Navigating Answers To Springboard Pre Cal Unit 5 eBook Formats
  - ePub, PDF, MOBI, and More
  - Answers To Springboard Pre Cal Unit 5 Compatibility with Devices
  - Answers To Springboard Pre Cal Unit 5 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Answers To Springboard Pre Cal Unit 5
  - Highlighting and Note-Taking Answers To Springboard Pre Cal Unit 5
  - Interactive Elements Answers To Springboard Pre Cal Unit 5

8. Staying Engaged with Answers To Springboard Pre Cal Unit 5
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Answers To Springboard Pre Cal Unit 5
9. Balancing eBooks and Physical Books Answers To Springboard Pre Cal Unit 5
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Answers To Springboard Pre Cal Unit 5
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Answers To Springboard Pre Cal Unit 5
  - Setting Reading Goals Answers To Springboard Pre Cal Unit 5
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers To Springboard Pre Cal Unit 5
  - Fact-Checking eBook Content of Answers To Springboard Pre Cal Unit 5
  - 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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