



# Pre-Calculus

## Equations & Answers

### FUNCTIONS & THEIR GRAPHS

#### Definitions

A function is a relation in which each element of the domain is paired with only one element of the range.

In most cases,  $x$  is the independent variable and  $y$  or  $f(x)$  is the dependent variable.

#### Linear Functions

A function whose graph is a non-vertical line or part of a non-vertical line. There are 3 forms of linear equations: slope-intercept, point-slope, and standard form.

• **Slope-intercept form:**  $y = mx + b$ , where  $m$  is the slope and  $b$  is the  $y$ -intercept of the line.

EX: If a line has a slope of 3 and  $y$ -intercept of 1, the equation is  $y = 3x + 1$ .

• **Point-slope form:**  $y - y_1 = m(x - x_1)$ , where  $m$  is the slope and  $(x_1, y_1)$  is a point on the line.

EX: If a line has a slope of  $-2$  and contains the point  $(5, -4)$ , the equation is  $y - (-4) = -2(x - 5)$  or  $y + 4 = -2(x - 5)$ .

• **Standard form:**  $Ax + By = C$ , where  $A$ ,  $B$ , and  $C$  are integers and  $A$  is positive. The slope is  $-\frac{A}{B}$  and the  $y$ -intercept is  $\frac{C}{B}$ . This form of a line is most often used to find intercepts by plugging 0 in for  $x$  and  $y$  separately and solving.

EX: Given the line  $3x + 2y = 4$ , the slope is  $-\frac{3}{2}$  and the  $y$ -intercept is 2. The intercepts can also be found by substitution:

$x$ -intercept (plug in 0 for  $y$ ):

$$3x + 2y = 4 \quad 3x + 2(0) = 4 \quad 3x = 4 \quad x = \frac{4}{3}$$

$y$ -intercept (plug in 0 for  $x$ ):

$$3x + 2y = 4 \quad 3(0) + 2y = 4 \quad 2y = 4 \quad y = 2$$

#### 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 odd, there is at least one real zero, when the degree is even, there may be no real zeros.

• Both types can have imaginary roots of the form  $a + bi$ .

EX:  $f(x) = 2x^3 + 3x^2 - x + 4$  has a degree of 3, one real zero at  $x = -2.1601$ , and two non-real roots.

#### Quadratic Functions

Written in the form  $f(x) = ax^2 + bx + c$ , where  $a \neq 0$

• The **axis of symmetry** is the vertical line with equation  $x = -\frac{b}{2a}$

• The  $y$ -intercept is  $c$ .

• Quadratic functions can be written in **vertex form**,  $f(x) = a(x - h)^2 + k$ , where  $(h, k)$  is the vertex of a parabola that opens up when  $a > 0$  and opens down when  $a < 0$ .

• Quadratic functions can have none, one, or two real-number solutions.

• The graph is a parabola if the parabola opens left or right—it is not a function.

• The vertex is the **critical point** where the graph changes from increasing to decreasing or decreasing to increasing.

#### Methods for Finding Roots

| Equation            | Method                                     | Justification                                                                | Solution                                                                                                                                  |
|---------------------|--------------------------------------------|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| $x^2 - 9 = 0$       | Square Roots                               | There is no $x$ -term.                                                       | $x^2 - 9 = 0$<br>$x^2 = 9$<br>$x = 3$ or $-3$                                                                                             |
| $x^2 + 2x - 8 = 0$  | Factoring                                  | It has only a few factors to check.                                          | $x^2 + 2x - 8 = 0$<br>$(x + 4)(x - 2) = 0$<br>$x = -4$ or $2$                                                                             |
| $2x^2 + 5x - 9 = 0$ | Quadratic Formula                          | The equation cannot be factored.                                             | $x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-9)}}{2(2)}$<br>$x = \frac{-5 \pm \sqrt{91}}{4}$                                                       |
| $x^2 - 8x + 3 = 0$  | Completing the Square or Quadratic Formula | The coefficient of the $x^2$ -term is 1 but the equation cannot be factored. | $x^2 - 8x + 3 = 0$<br>$x^2 - 8x = -3$<br>$x^2 - 8x + 16 = -3 + 16$<br>$(x - 4)^2 = 13$<br>$x - 4 = \pm\sqrt{13}$<br>$x = 4 \pm \sqrt{13}$ |

The **discriminant** is the expression under the radical in the Quadratic Formula and can be used to determine the number of real solutions.

• A function can be identified using the **vertical line test**. If a vertical line passes through the graph of the function in more than one point, the graph is not a function.

• A function can be represented by an equation in terms of  $x$  and  $y$  or with function notation:  $y = 7x - 11$  or  $f(x) = 7x - 11$ .

**Discriminant:**  $b^2 - 4ac > 0$

$$\text{EX: } 2x^2 - 7x + 3 = 0$$

The discriminant is  $(-7)^2 - 4(2)(3) = 25$ , which is positive.

There are two real number solutions.



**Discriminant:**  $b^2 - 4ac = 0$

$$\text{EX: } x^2 - 8x + 16 = 0$$

The discriminant is  $(-8)^2 - 4(1)(16) = 0$ .

There is one real number solution.



**Discriminant:**  $b^2 - 4ac < 0$

$$\text{EX: } 2x^2 - 7x + 8 = 0$$

The discriminant is  $(-7)^2 - 4(2)(8) = -15$ , which is negative.

There are no real number solutions.



#### Rational Functions

A rational function is an equation of the form  $f(x) = \frac{p(x)}{q(x)}$ , where  $p(x)$  and  $q(x)$  are polynomial functions and  $q(x) \neq 0$ .

• Rational functions may have breaks in continuity that appear in the graph as vertical asymptotes or point discontinuities that appear as holes.

• Vertical asymptotes occur where a rational function is undefined.

• Point discontinuities occur where there is a common factor in the numerator and denominator.

**To multiply:** First multiply the numerators, then the denominators.

$$\frac{x^2 - 4}{3x + 12} \cdot \frac{x + 4}{2x - 2} = \frac{(x - 2)(x + 2)(x + 4)}{(3x + 12)(2x - 2)} = \frac{(x - 2)(x + 2)(x + 4)}{2(x + 3)(2x - 2)}$$

$$= \frac{(x - 2)(x + 2)(x + 4)}{2(x + 3)(2x - 2)}$$

**To divide:** Multiply by the multiplicative inverse (reciprocal) of the divisor.

$$\frac{x^2 + 3x + 10}{x^2 + 3x + 2} \cdot \frac{x + 2}{x + 3} = \frac{x^2 + 3x + 10}{x^2 + 3x + 2} \cdot \frac{x + 2}{x + 3} = \frac{(x + 2)(x + 5)(x + 2)}{(x + 2)(x + 1)(x + 3)} = \frac{(x + 5)(x + 2)}{(x + 1)(x + 3)}$$

**Order is important for division.**

**To add and subtract:** There must be a common denominator. To find it for rational expressions with polynomials in the denominator, factor first to determine common factors.

$$\frac{5}{x^2 - x - 20} + \frac{7}{2x - 10} = \frac{5}{(x - 4)(x - 5)} + \frac{7}{2(x - 5)}$$

Using one of each factor, the LCM is  $2(x - 4)(x - 5)$ . Multiply each fraction's numerator and denominator by the factors missing from the LCM.

$$= \frac{5}{(x - 4)(x - 5)} \cdot \frac{2}{2} + \frac{7}{2(x - 5)} \cdot \frac{(x - 4)}{(x - 4)} = \frac{10}{2(x - 4)(x - 5)} + \frac{7(x - 4)}{2(x - 5)(x - 4)} = \frac{10 + 7x - 28}{2(x - 5)(x - 4)}$$

$$\text{Subtracting: } \frac{h - 4}{h^2 + 3h - 10} - \frac{h + 2}{h^2 + h - 20} = \frac{h - 4}{(h - 5)(h + 2)} - \frac{h + 2}{(h - 4)(h + 5)}$$

Using one of each factor, the LCM is

$(h - 2)(h + 5)(h - 4)$ . Multiply each fraction's numerator and denominator by the factors missing from the LCM.

**Hint:** The common denominator is the LCM (least common multiple) of the denominators.

**Warning:** The subtraction sign must be distributed to each part of the numerator of the second fraction.

$$= \frac{h - 4}{(h - 2)(h + 5)(h - 4)} - \frac{h + 2}{(h - 4)(h + 5)(h - 2)} = \frac{h^2 - 8h + 20}{(h - 2)(h + 5)(h - 4)} - \frac{h^2 - 4}{(h - 4)(h + 5)(h - 2)} = \frac{-8h + 20}{(h - 2)(h + 5)(h - 4)}$$

# Pre Calc Final Review Guide

**E Staff**



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**Pre-Calculus** Ken Yablonsky, 2015-12-31 Each step higher in math studies is crucial to doing well at the next level Pre Calc is the gateway to higher level mathematics of which the best degrees and careers are built upon The core essentials in 6 laminated pages can be used along with your text and lectures as a review before testing or as a memory companion that keeps key answers always at your fingertips The most answers for your money in what students have said is a must have study tool Suggested uses o Quick Reference instead of digging into the textbook to find a core answer you need while studying use the guide to reinforce quickly and repeatedly o Memory refreshing your memory repeatedly is a foundation of studying have the core answers handy so you can focus on understanding the concepts o Test Prep no student should be cramming but if you are there is no better tool for that final review Wiley's Level III CFA Program 11th Hour Final Review Study Guide 2020 Wiley, 2020-03-10 The CFA Institute has announced that all 2021 exams will continue to reflect the official 2020 curriculum Wiley's 11th Hour Final Review Guide for 2020 Level III CFA Exam compacts all readings tested on the 2020 CFA exam into one portable volume Organized in order this best selling guide has helped thousands of candidates from over one hundred countries pass the CFA exam Designed to boil it all down to the crucial concepts formulas and rules this guide ensures candidates are familiar with the most important testable information It's difficult to go over multiple books in the last few weeks before the exam so Wiley's 11th Hour Review Guide does the work for you condensing each reading down to two to five pages Enter the exam room with confidence and reinforce your knowledge and preparation This comprehensive guide complements Wiley's CFA Study Guides sold separately but may be used with any review course An effective efficient study guide this book prepares you to reach the next level in your career The Eleventh Hour Review book is simply brilliant Virtually every sentence it contains is testable it's an absolute must have for every Level I candidate Ameer UK The eleventh hour guide was a great help Konrad South Africa I used your eleventh hour guide and mock exams for the last bit of my studying and greatly enjoyed your material Out of all of the exam prep material I thought yours was the best Thomas USA Thanks to the team for writing the most intelligent Chartered Financial Analyst material I have seen to date The eleventh hour guide is absolute genius and proving very valuable at this stage of the revision process Doug UK **Wiley's Level III CFA Program 11th Hour Final Review Study Guide 2023** Wiley, 2022-12-08 The perfect study aid to boost your confidence right before the Level III CFA exam Wiley's Level III CFA Program 11th Hour Final Review Study Guide 2023 is a concise review of the concepts covered on Level III of the Chartered Financial Analyst certification exams Rather than act as a primary study tool the book offers a straightforward and effective way to review the topics covered by the exam The book covers Ethical and professional standards Financial analysis tools and economics Portfolio management and analysis Assets including equity investments derivatives fixed income and alternative investments Perfect for any prospective CFA Level III exam taker seeking to improve their confidence with the subjects covered by the test Wiley's Level III CFA Program 11th

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## **Table of Contents Pre Calc Final Review Guide**

1. Understanding the eBook Pre Calc Final Review Guide
  - The Rise of Digital Reading Pre Calc Final Review Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Pre Calc Final Review Guide
  - 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 Pre Calc Final Review Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pre Calc Final Review Guide

- Personalized Recommendations
- Pre Calc Final Review Guide User Reviews and Ratings
- Pre Calc Final Review Guide and Bestseller Lists
- 5. Accessing Pre Calc Final Review Guide Free and Paid eBooks
  - Pre Calc Final Review Guide Public Domain eBooks
  - Pre Calc Final Review Guide eBook Subscription Services
  - Pre Calc Final Review Guide Budget-Friendly Options
- 6. Navigating Pre Calc Final Review Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Pre Calc Final Review Guide Compatibility with Devices
  - Pre Calc Final Review Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Pre Calc Final Review Guide
  - Highlighting and Note-Taking Pre Calc Final Review Guide
  - Interactive Elements Pre Calc Final Review Guide
- 8. Staying Engaged with Pre Calc Final Review Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Pre Calc Final Review Guide
- 9. Balancing eBooks and Physical Books Pre Calc Final Review Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Pre Calc Final Review Guide
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Pre Calc Final Review Guide
  - Setting Reading Goals Pre Calc Final Review Guide
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pre Calc Final Review Guide

- Fact-Checking eBook Content of Pre Calc Final Review Guide
  - 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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