



# 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 5, the equation is  $y = 3x + 5$ .

- 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  $(0, -4)$ , the equation is  $y - (-4) = -2(x - 0)$  or  $y + 4 = -2(x - 0)$ .

- 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  $x = -2.1608$ , 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.	$x^2 - 9 = 0$ $x^2 = 9$ $x = 3$ or $-3$
$x^2 + 2x - 8 = 0$	Factoring	It has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4$ or $2$
$2x^2 + 5x - 9 = 0$	Quadratic Formula	The equation cannot be factored.	$x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{25 + 72}}{4}$ $x = \frac{-5 \pm \sqrt{97}}{4}$
$x^2 - 8x + 3 = 0$	Completing the Square or Quadratic Formula	The coefficient of the $x^2$ -term is 1 but the equation cannot be factored.	$x^2 - 8x + 3 = 0$ $x^2 - 8x = -3$ $x^2 - 8x + 16 = -3 + 16$ $x^2 - 8x + 16 = 13$ $(x - 4)^2 = 13$ $x - 4 = \pm\sqrt{13}$ $x = 4 \pm\sqrt{13}$

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

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

EX:  $x^2 - 8x + 16 = 0$

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

There is one real number solution.



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

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.

$$\frac{8x^2 - 8}{3x + 10} \cdot \frac{4x + 6}{2x - 2} = \frac{(8x^2 - 8)(4x + 6)}{(3x + 10)(2x - 2)}$$

$$= \frac{8x^2(4x + 6) - 8(4x + 6)}{(3x + 10)(2x - 2)}$$

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

$$\begin{aligned} \frac{x^2 + 3x + 10}{x^2 + 3x + 2} \cdot \frac{x - 2}{x - 2} &= \frac{x^2 + 3x + 10}{x^2 + 3x + 2} \cdot \frac{x - 2}{x - 2} \\ &= \frac{x^2 + 3x + 10}{x^2 + 3x + 2} \cdot \frac{x - 2}{x - 2} \\ &= \frac{(x + 5)(x + 2)(x - 2)}{(x + 2)(x + 1)(x - 2)} \\ &= \frac{x + 5}{x + 1} \end{aligned}$$

**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.

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

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

Using one of each factor, the LCM is  $(x + 3)(x + 5)(x + 4)$ . 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.

$$\begin{aligned} &= \frac{x - 4}{(x + 3)(x + 2)} - \frac{x + 2}{(x + 3)(x + 5)} \\ &= \frac{x^2 - 8x + 20}{(x + 3)(x + 2)(x + 5)} - \frac{x^2 + 8x + 10}{(x + 3)(x + 2)(x + 5)} \\ &= \frac{-8x + 10}{(x + 3)(x + 2)(x + 5)} \end{aligned}$$

# Pre Calculus Formulas Study Guide

**Mary Jane Sterling**



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**Pre-Calculus For Dummies** Mary Jane Sterling, 2018-10-25 Get ahead in pre calculus Pre calculus courses have become increasingly popular with 35 percent of students in the U S taking the course in middle or high school Often completion of such a course is a prerequisite for calculus and other upper level mathematics courses Pre Calculus For Dummies is an invaluable resource for students enrolled in pre calculus courses By presenting the essential topics in a clear and concise manner the book helps students improve their understanding of pre calculus and become prepared for upper level math courses Provides fundamental information in an approachable manner Includes fresh example problems Practical explanations mirror today s teaching methods Offers relevant cultural references Whether used as a classroom aid or as a refresher in preparation for an introductory calculus course this book is one you ll want to have on hand to perform your very best

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Barron's Math 360: A Complete Study Guide to Pre-Calculus with Online Practice Barron's Educational Series, Lawrence

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*Manual of Precalculus Mathematics* Juan Gabriel Brida, 2009 This book is a comprehensive and concise review and study guide. It provides formulas and exercises for the mathematics topics covered in a precalculus course. The volume is a reference work that can be used by students for their first mathematics courses at university level. **Pre-Calculus All-in-One For Dummies** Mary Jane Sterling, 2023-10-10 The easy way to understand and retain all the concepts taught in pre calculus classes. Pre Calculus All in One For Dummies is a great resource if you want to do your best in Pre Calculus. Packed with lessons, examples and practice problems in the book plus extra chapter quizzes online, it gives you absolutely everything you need to succeed in pre calc. Unlike your textbook, this book presents the essential topics clearly and concisely so you can really understand the stuff you learn in class, score high on your tests, including the AP Pre Calculus exam, and get ready to confidently move ahead to upper level math courses. And if you need a refresher before launching into calculus, look no further: this book has your back. Review what you learned in algebra and geometry, then dig into pre calculus. Master logarithms, exponentials, conic sections, linear equations and beyond. Get easy-to-understand explanations that match the methods your teacher uses. Learn clever shortcuts, test-taking tips and other hacks to make your life easier. Pre Calculus All in One For Dummies is the must-have resource for students who need to review for exams or just want a little or a lot of extra

help understanding what's happening in class

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**Master Math** Debra Anne Ross, 1998 A reference for beginning students or

those seeking a refresher course covers functions derivatives integrals series and approximations vectors matrices curves and surfaces and motion

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**Precalculus** Sheldon Axler, 2017-08-21 Sheldon Axler's Precalculus A Prelude to Calculus 3rd Edition focuses only on topics that students actually need to succeed in calculus This book is geared towards courses with intermediate algebra prerequisites and it does not assume that students remember any trigonometry It covers topics such as inverse functions logarithms half life and exponential growth area  $e$  the exponential function the natural logarithm and trigonometry

*CliffsAP Calculus AB and BC, 3rd Edition* Dale W Johnson, Kerry J King, 2002-05-31 CliffsAP study guides help you gain an edge on Advanced Placement exams Review exercises realistic practice exams and effective test taking strategies are the key to calmer nerves and higher AP scores CliffsAP Calculus AB and BC is for students who are enrolled in AP Calculus AB and or BC or who are preparing for the Advanced Placement Examination in these areas The Calculus BC exam includes all of the material in the Calculus AB exam plus additional selected topics notably on sequences and series Inside you'll find test taking strategies a clear explanation of the exam format a look at how exams are graded and more A topic by topic look at what's on the exam Tips for test preparation Suggested approaches to free response and multiple choice questions Two full length practice tests Answers to frequently asked questions about the exam Sample questions and answers and practice tests reinforce what you've learned in areas such as limits and continuity antiderivatives and definite integrals and polynomial approximations CliffsAP Calculus AB and BC also includes information on the following Trigonometric functions Algebraic techniques for finding limits Derivatives of exponential functions Differential equations and slope fields Radius and interval of convergence of power series Numerical solutions to differential equations Euler's Method This comprehensive guide offers a thorough review of key concepts and detailed answer explanations It's all you need to do your best and get the college credits you deserve Advanced Placement Program and AP are registered trademarks of the College Board which was not involved in the production of and does not endorse this product

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## **Table of Contents Pre Calculus Formulas Study Guide**

1. Understanding the eBook Pre Calculus Formulas Study Guide
  - The Rise of Digital Reading Pre Calculus Formulas Study Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Pre Calculus Formulas Study 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 Calculus Formulas Study Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Pre Calculus Formulas Study Guide
  - Personalized Recommendations
  - Pre Calculus Formulas Study Guide User Reviews and Ratings
  - Pre Calculus Formulas Study Guide and Bestseller Lists
5. Accessing Pre Calculus Formulas Study Guide Free and Paid eBooks

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