



# 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.	$x^2 - 8x + 3 = 0$ $x^2 - 8x = -3$ $x^2 - 8x + 16 = -3 + 16$ $(x - 4)^2 = 13$ $x - 4 = \pm\sqrt{13}$ $x = 4 \pm\sqrt{13}$

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.

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

**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.

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

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

Using one of each factor, the LCM is  $(x - 2)(x + 5)(x - 4)$ . 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.

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

# Study Guide Pre Calculus

**Carolyn Wheater**



## Study Guide Pre Calculus:

*Pre-Calculus Study Guide (Speedy Study Guide)* Speedy Publishing LLC, 2014-11-19 Studying for Pre Calculus is no joke and it the beginning to the part of math where paying attention alone is not an option In order for any student to get better in math and know their material many different trials and errors must take place in addition to trying out the formulas learned to see how applying a formula is very different than just memorizing them By teaching the student about formulas and how to approach pre calculus best the study guide is always considered to be the most useful asset that teachers use to help them get the message across to students for years to come in their professional lives **Barron's Math 360: A Complete Study**

**Guide to Pre-Calculus with Online Practice** Barron's Educational Series, Lawrence S. Leff, Christina Pawlowski-Polanish, 2021-09-07 Barron's Math 360 Pre Calculus is your complete go to guide for everything pre calculus This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you ll find Comprehensive Content Review Begin your study with the basic building blocks of pre calculus and build as you go Topics include algebraic methods functions and graphs complex numbers polynomial and rational functions and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come *Pre-Calculus Study Guide (Speedy Study Guide)* Speedy Publishing, 2014-11-26 Studying for Pre Calculus is no joke and it the beginning to the part of math where paying attention alone is not an option In order for any student to get better in math and know their material many different trials and errors must take place in addition to trying out the formulas learned to see how applying a formula is very different than just memorizing them By teaching the student about formulas and how to approach pre calculus best the study guide is always considered to be the most useful asset that teachers use to help them get the message across to students for years to come in their professional lives **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

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o Test Prep no student should be cramming but if you are there is no better tool for that final review *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 you 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 [Precalculus CLEP Test Study Guide - PassYourClass](#)

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Alexander Kheyfits, 2017-07-07. This two volume text is designed for high school students preparing for college and for college students who have to take a remedial mathematics course. In both cases, the goal of this book is to help the students to learn the necessary mathematics and to go straightforwardly to college level courses without taking the mathematical remediation at all or complete it quickly. The book is also useful to people who, after spending a few years in workforce, decide to advance their life and career and go to college but have to refresh their mathematical background. The text will be also useful as a reference book to the teachers and parents. The book is quite suitable for international students who wish to study at any American or European college or university. This book contains brief introductions to the necessary topics, many examples with detailed solutions, and more than 500 exercises with answers for the students' individual practice. The book includes numerous tips on how to study mathematics and to approach typical problems. The author teaches at the City

University of New York and the text reflects the author's 50 years of experience in teaching mathematics at all levels from high school to undergraduate to graduate school

**The Essentials of Pre-calculus** Ernest Woodward, 1992-01 REA's Essentials provide quick and easy access to critical information in a variety of different fields ranging from the most basic to the most advanced As its name implies these concise comprehensive study guides summarize the essentials of the field covered Essentials are helpful when preparing for exams doing homework and will remain a lasting reference source for students teachers and professionals Pre Calculus reviews sets numbers operations and properties coordinate geometry fundamental algebraic topics solving equations and inequalities functions trigonometry exponents and logarithms conic sections matrices and determinants

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*Easy Precalculus Step-by-Step* Carolyn Wheeler, 2012-06-15 Take it step by step for pre calculus success The quickest route to learning a subject is through a solid grounding in the basics So what you won't find in Easy Pre calculus Step by Step is a lot of endless drills Instead you get a clear explanation that breaks down complex concepts into easy to understand steps followed by highly focused exercises that are linked to core skills enabling learners to grasp when and how to apply those techniques This book features Large step by step charts breaking down each step within a process and showing clear connections between topics and annotations to clarify difficulties Stay in step panels show how to cope with variations to the core steps Step it up exercises link practice to the core steps already presented Missteps and stumbles highlight common errors to avoid You can master pre calculus as long as you take it Step by Step

**Schaum's Outline of Theory and Problems of Precalculus** Fred Safier, 1998 This outline helps students review algebra and trigonometry and prepares them for first year

calculus courses at university It uses simple easy to understand steps to show how to apply basic principles and concepts to actual problems

**Battaglia's Precalculus with Limits** Ron Larson, 2017-01-25 This guide offers step by step solutions for all odd numbered text exercises Chapter and Cumulative Tests and Practice Tests with solutions giving you a way to check your answers

**Study Guide for Stewart/Redlin/Watson's Precalculus: Mathematics for Calculus, 6th** James Stewart, Lothar Redlin, Saleem Watson, 2011-03-02 This carefully crafted learning resource helps students develop their problem solving skills while reinforcing their understanding with detailed explanations worked out examples and practice problems Students will also find listings of key ideas to master Each section of the main text has a corresponding section in the Study Guide

[Arithmetic Through Precalculus. a Primer and Study Guide. Volume 2](#) Alexander Kheyfits, 2017-07-18 This is Vol 2 of two volume text designed for high school students preparing for college and for college students who have to take a remedial mathematics course The goal of this book is to help the students to learn the necessary mathematics and to go straightforwardly to college level courses without taking the mathematical remediation at all or complete it quickly The book is also useful to people who after spending a few years in workforce decide to advance their life and career and go to college but have to refresh their mathematical background The text will be also helpful as a reference book to the teachers and parents It is quite suitable for international students who wish to study at any American or European college or university This book contains brief introductions to the necessary topics many examples with detailed solutions and more than 500 exercises with answers for the students individual practice The book includes numerous tips on how to study mathematics and to approach typical problems The author teaches at the City University of New York and the text reflects the author's 50 years of experience in teaching mathematics at all levels from high school to undergraduate to graduate school

**Study Guide for Precalculus** M. A. Munem, James P. Yizze, 1989-01-01

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