



# Pre-Calculus

$\lim_{x \rightarrow \infty} f(x) = 1$   
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  $y$ ):

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

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

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

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

$$\frac{\frac{8x^2 - 8}{3x + 10} \cdot \frac{4x + 6}{2x - 2}}{\frac{5x - 10}{3x + 10} \cdot \frac{4x + 6}{2x - 2}} = \frac{8x^2 - 8}{5x - 10} \cdot \frac{4x + 6}{4x + 6} = \frac{8x^2 - 8}{5x - 10}$$

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

**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.

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

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

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.

$$\begin{aligned} &= \frac{x - 4}{(x + 3)(x + 2)} \cdot \frac{x + 4}{x + 4} - \frac{x + 2}{(x + 3)(x + 5)} \cdot \frac{x + 4}{x + 4} \\ &= \frac{x^2 - 8x + 16}{(x + 3)(x + 2)(x + 4)} - \frac{x^2 + 4x + 8}{(x + 3)(x + 5)(x + 4)} \\ &= \frac{-8x + 20}{(x + 3)(x + 2)(x + 4)} \end{aligned}$$

# Study Guide Pre Calculus

**Mary Jane Sterling**



## 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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**Arithmetic Through Precalculus. a Primer and Study Guide** 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.

*High School Pre-Calculus Tutor* The Editors of REA, 2013-01-01 Specifically designed to meet the needs of high school students, REA's High School Pre-Calculus Tutor presents hundreds of solved problems with step-by-step and detailed solutions. Almost any imaginable problem that might be assigned for homework or given on an exam is covered. Topics include algebraic laws and operations; coordinate system relations; linear functions; sequences; series; graphing; limits and applications. A valuable study aid for students taking upper-level mathematics courses. Fully indexed for locating specific problems rapidly.

*Pre-Calculus Questions and Answers (Speedy Study Guides)* LLC Publishing, Speedy Publishing LLC, 2014-05 In the world of mathematics, entry into calculus comes through practice in trigonometry, algebra, limits, and exponential/logarithmic functions, pre-calculus. Such practice is necessary to understand calculus, the study of measuring infinitesimal change. According to 1980s psychologist Howard Gardner, learners assimilate information using a variety of senses and abilities: musical, rhythmic, visual, spatial, verbal, linguistic, logical, mathematical, bodily, kinesthetic, interpersonal, intra-personal, and naturalistic, by name. For visual learners, a flow chart mapping the proper math to apply to a problem would help them solve it.

Pre-Calculus Study Guide Noah Ras, 2015-06-11 In mathematics education, pre-calculus is a course with college-level algebra and trigonometry that is designed to prepare students for the study of calculus. This study guide/workbook is the perfect supplement to understanding pre-calculus.

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

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