



# 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.

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

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

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

**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.

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

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

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

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

# Study Guide T A Precalculus Subj

**ML Morrison**



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*Les Miserables (MAXNotes Literature Guides)* Suzanne Uber, 2013-01-01 REA's MAXnotes for Victor Hugo's *Les Miserables* MAXnotes offer a fresh look at masterpieces of literature presented in a lively and interesting fashion. Written by literary experts who currently teach the subject, MAXnotes will enhance your understanding and enjoyment of the work. MAXnotes are designed to stimulate independent thought about the literary work by raising various issues and thought-provoking ideas and questions. MAXnotes cover the essentials of what one should know about each work, including an overall summary, character lists, an explanation and discussion of the plot, the work's historical context, illustrations to convey the mood of the work, and a biography of the author. Each chapter is individually summarized and analyzed and has study questions and answers.

**Pre-Calculus Study Guide (Speedy Study Guide)** Speedy Publishing LLC, 2014-11-19 Studying for Pre-Calculus is no joke and it's 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.

*Subject Guide to Books in Print*, 1993

**Research in Collegiate Mathematics Education IV** Ed Dubinsky, 2000 This fourth volume of *Research in Collegiate Mathematics Education* RCME IV reflects the themes of student learning and calculus. Included are overviews of calculus reform in France and in the U.S. and large-scale and small-scale longitudinal comparisons of students enrolled in first-year reform courses and in traditional courses. The work continues with detailed studies relating students' understanding of calculus and associated topics. Direct focus is then placed on instruction and student comprehension of courses other than calculus, namely abstract algebra and number theory. The volume concludes with a study of a concept that overlaps the areas of focus: quantifiers. The book clearly reflects the trend towards a growing community of researchers who systematically gather and distill data regarding collegiate mathematics teaching and learning. This series is published in cooperation with the Mathematical Association of America.

**Probability Problem Solver** staff of Research and Education Association, 2001-01-01 Exhaustive coverage is given to all major topics in probability. Among the many topics covered are set theory, Venn diagrams, discrete random variables, continuous random variables, moments, joint distributions, laws of large numbers, and the central limit theorem. Specific exercises and examples accompany each chapter. This book is a necessity for anyone studying probability and statistics.

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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

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**Resources in Education** ,1990 *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

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