



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.
- KN:** If a line has a slope of 3 and y -intercept of 2, the equation is $y = 3x + 2$.
- 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.
- KN:** If a line has a slope of -2 and contains the point $(0, -4)$, the equation is $y - (-4) = -2(x - 0)$ or $y = -2x - 4$.
- Standard Form:** $Ax + By = C$, where A , B , and C are integers and A is positive. The slope is $-B/A$ and the y -intercept is 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.
- KN:** Given the line $3x + 2y = 4$, the slope is $-3/2$ and the y -intercept is 2. The intercepts can also be found by substitution:

$$\begin{aligned}x\text{-intercept (plugging 0 in for }y\text{):} \\3x + 2(0) = 4 \quad 3x = 4 \quad x = \frac{4}{3} \\y\text{-intercept (plugging 0 in for }x\text{):} \\3(0) + 2y = 4 \quad 2y = 4 \quad y = 2\end{aligned}$$

Polynomial Functions

A function is a polynomial function if it can be written in the form $f(x) = a_nx^n + a_{n-1}x^{n-1} + a_{n-2}x^{n-2} + \dots + a_1x + a_0$.

- 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 $a + bi$.

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

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	Classification	Solution
$x^2 = 9 = 0$	Square Roots	There is no x -value.	$x^2 = 9$ $x^2 = 9$ $x = 3$ or $x = -3$
$x^2 + 2x - 8 = 0$	Factoring	It has only a few factors to check.	$x^2 + 2x - 8 = 0$ $(x + 4)(x - 2) = 0$ $x = -4$ or $x = 2$
$2x^2 + 5x + 9 = 0$	Quadratic Formula	The equation cannot be factored.	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $x = \frac{-5 \pm \sqrt{25 - 4(2)(9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{59}}{4}$
$x^2 - 8x + 3 = 0$	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: $b^2 - 4ac > 0$

KN: $2x^2 - 7x + 3 = 0$
The discriminant is $(-7)^2 - 4(2)(3) = 25$, which is positive.
There are two real number solutions.



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

KN: $x^2 - 8x = 0$
The discriminant is $(-8)^2 - 4(1)(0) = 64$, which is zero.
There is one real number solution.



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

KN: $2x^2 - 7x - 8 = 0$
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.

$$\begin{aligned}\frac{a^2 - 8}{2x + 10} \cdot \frac{3x + 6}{x - 2} \\= \frac{(a - 2)(a + 4)}{2(x + 5)} \cdot \frac{3(x + 2)}{(x - 2)}\end{aligned}$$

$$\frac{\text{Factor out factors}}{\text{Cancel factors}} \cdot \frac{3(x + 2)}{2(x + 5)}$$

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

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 them to determine common factors.

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

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

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

$$\begin{aligned}\frac{5}{(x + 4)(x - 5)} \cdot \frac{2}{2} + \frac{7}{2(x - 5)} \cdot \frac{(x + 4)}{(x + 4)} \\= \frac{10}{2(x^2 - 5x + 4x - 20)} + \frac{7(x + 4)}{2(x^2 - 5x + 4x - 20)} \\= \frac{10}{2(x^2 - x - 20)} + \frac{7(x + 4)}{2(x^2 - x - 20)} \\= \frac{10}{2(x^2 - x - 20)} + \frac{7x + 28}{2(x^2 - x - 20)}\end{aligned}$$

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

$$\begin{aligned}\frac{10}{2(x^2 - x - 20)} - \frac{7x + 28}{2(x^2 - x - 20)} \\= \frac{10 - 7x - 28}{2(x^2 - x - 20)} \\= \frac{-7x - 18}{2(x^2 - x - 20)}\end{aligned}$$

$x \neq -4$ and $x \neq 5$.

Using one of each factor, the LCM is $(x - 2)(x + 2)(x - 3)$.

$$\begin{aligned}\frac{3x - 6}{(x - 2)(x + 2)} - \frac{2x + 6}{(x - 2)(x + 2)(x - 3)} \\= \frac{3x^2 - 6x - 2x - 6}{(x - 2)(x + 2)(x - 3)} \\= \frac{3x^2 - 8x - 6}{(x - 2)(x + 2)(x - 3)}\end{aligned}$$

$x \neq -2$ and $x \neq 3$.

$x \neq 2$.

$$\begin{aligned}\frac{3x^2 - 8x - 6}{(x - 2)(x + 2)(x - 3)} \\= \frac{3x^2 - 8x - 6}{x^3 - 3x^2 - 2x^2 + 6x - 4x + 12} \\= \frac{3x^2 - 8x - 6}{x^3 - 5x^2 + 2x + 12}\end{aligned}$$

$x \neq -2$ and $x \neq 3$.

$$\begin{aligned}\frac{3x^2 - 8x - 6}{x^3 - 5x^2 + 2x + 12} \\= \frac{3x^2 - 8x - 6}{(x - 3)(x^2 - 2x - 4)} \\= \frac{3x^2 - 8x - 6}{(x - 3)(x - 4)(x + 1)}\end{aligned}$$

$x \neq -1$ and $x \neq 4$.

$$\begin{aligned}\frac{3x^2 - 8x - 6}{(x - 3)(x - 4)(x + 1)} \\= \frac{3x^2 - 8x - 6}{(x + 1)(x - 1)(x - 3)(x - 4)}\end{aligned}$$

$x \neq -1$, $x \neq 1$, $x \neq 3$, and $x \neq 4$.

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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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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 [**Precalculus CLEP Test Study Guide**](#) Passyourclass,2020-01-30 2020 Edition Our CLEP study guides are different The Precalculus CLEP study guide TEACHES you what you need to know to pass the CLEP test This study guide is more than just pages of sample test questions Our easy to understand study guide will TEACH you the information We've condensed what you need to know into a manageable book one that will leave you completely prepared to tackle the test This study guide includes sample test questions that will test your knowledge AND teach you new material Your Precalculus CLEP study guide also includes flashcards that are bound into the back of the book Use these to memorize key concepts and terms Anyone can take and pass a CLEP test What are you waiting for Testimonials I have passed Biology Natural Science Information Technology Humanities with the help of your guides I also passed Math English comp w essay German and Western Civ II Getting a 4 year degree in 3 years now while working full time with 2 kids Not bad huh Bob V I passed Rebecca V Dear PassYourClass I have bought 5 books from you and they are great I have earned a total of 15 hours this summer Thank you for your services Stacy G [**Eureka Math Algebra I Study Guide**](#) Great Minds,2016-06-14 The Eureka Math curriculum provides detailed daily lessons and assessments to support teachers in

integrating the Common Core State Standards for Mathematics CCSSM into their instruction The companion guides to Eureka Math gather the key components of the curriculum for each grade into a single location Both users and non users of Eureka Math can benefit equally from the content presented The CCSSM require careful study A thorough study of the Guidebooks is a professional development experience in itself as users come to better understand the standards and the associated content Each book includes narratives that provide educators with an overview of what students learn throughout the year information on alignment to the instructional shifts and the standards design of curricular components and descriptions of mathematical models The Guidebooks can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are either brand new to the classroom or to the Eureka Math curriculum the Grade Level Guidebooks introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers already familiar with the curriculum will also find this resource valuable as it allows for a meaningful study of the grade level content in a way that highlights the coherence between modules and topics The Guidebooks allow teachers to obtain a firm grasp on what it is that students should master during the year

Pre-Calculus For Dummies Mary Jane Sterling,2018-11-13 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

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

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