



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):

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

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.	$x = \frac{-5 \pm \sqrt{5^2 - 4(2)(-9)}}{2(2)}$ $x = \frac{-5 \pm \sqrt{95}}{4}$
$x^2 - 8x + 3 = 0$	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.

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

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.

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

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 $(x + 3)(x + 10)(x - 5)$. 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.

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

Answers To Aleks Pre Calculus

Reza Nazari



Answers To Aleks Pre Calculus:

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Calculus Renewal Susan L. Ganter, 2013-06-29 Calculus Reform Or as many would prefer calculus renewal These are terms that for better or worse have become a part of the vocabulary in mathematics departments across the country The movement to change the nature of the calculus course at the undergraduate and secondary levels has sparked discussion and controversy in ways as diverse as the actual changes Such interactions range from coffee pot conversations to university curriculum committee agendas to special sessions on calculus renewal at regional and national conferences But what is the significance of these activities Where have we been and where are we going with calculus and more importantly the entire scope of undergraduate mathematics education In April 1996 I received a fellowship from the American Educational Research Association AERA and the National Science Foundation NSF This fellowship afforded me the opportunity to work in residence at NSF on a number of evaluation projects including the national impact of the calculus reform movement since 1988 That project resulted in countless communications with the mathematics community and others about the status of calculus as a course in isolation and as a significant player in the overall undergraduate mathematics and science experience for students and faculty While at NSF and through a second NSF grant received while at the American Association for Higher Education I also was part of an evaluation project for the Institution wide Reform IR program

Enhancing Outcomes and Shaping the Future of HBCUs Teodorescu, Daniel, 2024-10-18 Despite the growth in number of scholars doing work on Historically Black Colleges and Universities HBCUs many of the same challenges persist such as low retention rates financial struggles and small endowments However the post COVID era has ignited renewed interest in HBCUs driven by the Black Lives Matter Movement and a significant increase in donations since 2020 This surge in attention has led to what some call an HBCU renaissance with growing interest from researchers policymakers and donors As the field of HBCU studies expands it is crucial to evaluate the current research and identify future directions for study *Enhancing Outcomes and Shaping the Future of HBCUs* addresses the lack of research on HBCUs and aims to enrich scholarly understanding by summarizing current studies It highlights key findings methodologies and implications for HBCUs and explores the valuable insights gained from these studies emphasizing their role in shaping educational policy and practice Covering topics such as academic success educational research and research capacity this book is an excellent resource for scholars researchers scholar practitioners graduate and postgraduate students educators policymakers and more

Mathematics Teaching in the Middle School, 2004 **Learning Spaces** Jean-Claude Falmagne, Jean-Paul Doignon, 2010-09-10 Learning spaces offer a rigorous mathematical foundation for practical systems of

educational technology Learning spaces generalize partially ordered sets and are special cases of knowledge spaces The various structures are investigated from the standpoints of combinatorial properties and stochastic processes Learning spaces have become the essential structures to be used in assessing students competence of various topics A practical example is offered by ALEKS a Web based artificially intelligent assessment and learning system in mathematics and other scholarly fields At the heart of ALEKS is an artificial intelligence engine that assesses each student individually and continuously The book is of interest to mathematically oriented readers in education computer science engineering and combinatorics at research and graduate levels Numerous examples and exercises are included together with an extensive bibliography

Algebra and Trigonometry John W. Coburn, 2010 Three components contribute to a theme sustained throughout the Coburn Series that of laying a firm foundation building a solid framework and providing strong connections Not only does Coburn present a sound problem solving process to teach students to recognize a problem organize a procedure and formulate a solution the text encourages students to see beyond procedures in an effort to gain a greater understanding of the big ideas behind mathematical concepts

5 Full Length ALEKS Math Practice Tests Reza Nazari, Ava Ross, 2019-07-03 This book is your ticket to ace the ALEKS Math 5 Full Length ALEKS Math Practice Tests which reflects the 2019 and 2020 test guidelines and topics is designed to help you hone your math skills overcome your exam anxiety and boost your confidence and do your best to ace the ALEKS Math Test The realistic and full length ALEKS Math tests show you how the test is structured and what math topics you need to master The practice test questions are followed by answer explanations to help you find your weak areas learn from your mistakes and raise your ALEKS Math score The surest way to succeed on ALEKS Math Test is with intensive practice in every math topic tested and that's what you will get in 5 Full Length ALEKS Math Practice Tests This ALEKS Math new edition has been updated to replicate questions appearing on the most recent ALEKS Math tests This is a precious learning tool for ALEKS Math test takers who need extra practice in math to improve their ALEKS Math score After taking the ALEKS Math practice tests in this book you will have solid foundation and adequate practice that is necessary to succeed on the ALEKS Math test This book is your ticket to ace the ALEKS Math 5 Full Length ALEKS Math Practice Tests contains many exciting and unique features to help you improve your test scores including Content 100% aligned with the 2019 2020 ALEKS test Written by ALEKS Math tutors and test experts Complete coverage of all ALEKS Math concepts and topics which you will be tested Detailed answers and explanations for every ALEKS Math practice questions to help you learn from your mistakes 5 full length practice tests featuring new question types with detailed answers This ALEKS Math book and other Effortless Math Education books are used by thousands of students each year to help them review core content areas brush up in math discover their strengths and weaknesses and achieve their best scores on the ALEKS test Get ready for the ALEKS Math Test with a PERFECT test book Published By Effortless Math Education www.EffortlessMath.com

Precalculus: Graphs & Models with ALEKS User Guide & Access Code 1 Semester

Raymond Barnett, Michael Ziegler, Karl Byleen, David Sobecki, 2008-02-14 The Barnett Graphs Models series in college algebra and precalculus maximizes student comprehension by emphasizing computational skills real world data analysis and modeling and problem solving rather than mathematical theory Many examples feature side by side algebraic and graphical solutions and each is followed by a matched problem for the student to work This active involvement in the learning process helps students develop a more thorough understanding of concepts and processes A hallmark of the Barnett series the function concept serves as a unifying theme A major objective of this book is to develop a library of elementary functions including their important properties and uses Employing this library as a basic working tool students will be able to proceed through this course with greater confidence and understanding as they first learn to recognize the graph of a function and then learn to analyze the graph and use it to solve the problem Applications included throughout the text give the student substantial experience in solving and modeling real world problems in an effort to convince even the most skeptical student that mathematics is really useful

Precalculus Mehdi Rahmani-Andebili, 2021-05-04 This study guide is designed for students taking courses in precalculus The textbook includes practice problems that will help students to review and sharpen their knowledge of the subject and enhance their performance in the classroom Offering detailed solutions multiple methods for solving problems and clear explanations of concepts this hands on guide will improve student s problem solving skills and basic understanding of the topics covered in their pre calculus and calculus courses Exercises cover a wide selection of basic and advanced questions and problems Categorizes and orders the problems based on difficulty level hence suitable for both knowledgeable and under prepared students Provides detailed and instructor recommended solutions and methods along with clear explanations Can be used along with core precalculus textbooks

Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 2002

Student's Solutions Manual for Precalculus Robert Blitzer, 2017-04-19

Precalculus, Student Solutions Manual Cynthia Y. Young, 2010-02-15 Engineers looking for an accessible approach to calculus will appreciate Young s introduction The book offers a clear writing style that helps reduce any math anxiety they may have while developing their problem solving skills It incorporates Parallel Words and Math boxes that provide detailed annotations which follow a multi modal approach Your Turn exercises reinforce concepts by allowing them to see the connection between the exercises and examples A five step problem solving method is also used to help engineers gain a stronger understanding of word problems

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