



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 1, the equation is $y = 3x + 1$.

• **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 $(5, -4)$, the equation is $y - (-4) = -2(x - 5)$ or $y + 4 = -2(x - 5)$.

• **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 $x = -2.1601$, 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: $b^2 - 4ac > 0$

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

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.

$$\frac{x^2 - 4}{x^2 + 12} \cdot \frac{x + 4}{2x - 2} = \frac{(x^2 - 4)(x + 4)}{(x^2 + 12)(2x - 2)}$$

$$= \frac{(x - 2)(x + 2)(x + 4)}{(x^2 + 12)(2x - 2)}$$

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

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

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.

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

Adding:

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.

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

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

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

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.

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

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

Pre Calc Final Education 2020 Answers Key

M Lipman



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Technology and Innovation in Learning, Teaching and Education Arsénio Reis, João Barroso, J. Bernardino Lopes, Tassos Mikropoulos, Chih-Wen Fan, 2021-04-10 This book constitutes the thoroughly refereed post conference proceedings of the Second International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2020 held in Vila Real Portugal in December 2020 Due to the COVID 19 pandemic the conference was held in a fully virtual format The 27 revised full papers along with 15 short papers presented were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on digital resources as epistemic tools to improve STEM learning digital technologies to foster critical thinking and monitor self and co regulation of e learning Covid 19 pandemic changes in educational ecosystem and remote teaching transforming teaching and learning through technology educational proposals using technology to foster learning competences

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

Explore Business, Technology Opportunities and Challenges After the Covid-19 Pandemic Bahaaeddin Alareeni, Allam Hamdan, 2022-07-12 This book constitutes the refereed proceedings of the International Conference on Business and Technology ICBT2021 organized by EuroMid Academy of Business and Technology EMABT held in Istanbul between November 06 07 2021 In response to the call for papers for ICBT2021 485 papers were submitted for presentation and inclusion in the proceedings of the conference After a careful blind refereeing process 292

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Healthcare Informatics Stephan P. Kudyba, 2021-01-27 This book addresses how health apps in home measurement devices telemedicine data mining and artificial intelligence and smart medical algorithms are all enabled by the transition to a digital health infrastructure it provides a comprehensive background with which to understand what is happening in healthcare informatics and why C William Hanson III MD Chief Medical Information Officer and Vice President University of Pennsylvania Health System This book is dedicated to the frontline healthcare workers who through their courage and honor to their profession helped maintain a reliable service to the population at large during a chaotic time These individuals withstood fear and engaged massive uncertainty and risk to perform their duties of providing care to those in need at a time of crisis May the world never forget the COVID 19 pandemic and the courage of our healthcare workers Stephan P Kudyba Author Healthcare Informatics Evolving Strategies in the Digital Era focuses on the services technologies and processes that are evolving in the healthcare industry It begins with an introduction to the factors that are driving the digital age as it relates to the healthcare sector and then covers strategic topics such as risk management project management and knowledge management that are essential for successful digital initiatives It delves into facets of the digital economy and how healthcare is adapting to the geographic demographic and physical needs of the population and highlights the emergence and importance of apps and telehealth It also provides a high level approach to managing pandemics by applying the various elements of the digital ecosystem The book covers such technologies as Computerized physician order entry CPOE Clinical Information Systems Alerting systems and medical sensors Electronic healthcare records EHRs Mobile healthcare and telehealth Apps Business Intelligence and Decision Support Analytics Digital outreach to the population Artificial Intelligence The book then closes the loop on the efficiency enhancing process with a focus on utilizing analytics for

problem solving for a variety of healthcare processes including the pharmaceutical sector Finally the book ends with current and futuristic views on evolving applications of AI throughout the industry

Women's Health in Primary Care - E-Book
Lisa Ferguson, Susan M. Kendig, Sarah B. Freeman, Kelly Ellington, 2023-04-29 American Journal of Nursing AJN Book of the Year Awards 1st Place in Adult Primary Care 2023 Featuring a holistic woman centered focus and uniquely organized for consistency with the AWHONN NPWH Guidelines for Practice and Education this completely new textbook for primary care Nurse Practitioners Physician Assistants and other primary care practitioners responsible for women's health provides a strong evidence based clinical foundation for primary care of women Coverage includes foundational concepts in women's health well woman care throughout the lifespan and primary care management of common conditions affecting women

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