



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.

$$\frac{\frac{x^2 - 4}{x^2 + 1} \cdot \frac{x + 4}{x - 2}}{\frac{x^2 + 1}{x^2 + 1} \cdot \frac{x - 2}{x - 2}} = \frac{(x^2 - 4)(x + 4)}{(x^2 + 1)(x - 2)}$$

$$= \frac{(x - 2)(x + 2)(x + 4)}{(x^2 + 1)(x - 2)}$$

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

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

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.

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

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

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.

Identify 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.

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

Pre Calc Final Education 2020 Answers Key

ML Morrison



Pre Calc Final Education 2020 Answers Key:

Pre-Calculus, Calculus, and Beyond Hung-Hsi Wu, 2020-10-26 This is the last of three volumes that together give an exposition of the mathematics of grades 9-12 that is simultaneously mathematically correct and grade level appropriate. The volumes are consistent with CCSSM Common Core State Standards for Mathematics and aim at presenting the mathematics of K-12 as a totally transparent subject. This volume distinguishes itself from others of the same genre in getting the mathematics right. In trigonometry, this volume makes explicit the fact that the trigonometric functions cannot even be defined without the theory of similar triangles. It also provides details for extending the domain of definition of sine and cosine to all real numbers. It explains as well why radians should be used for angle measurements and gives a proof of the conversion formulas between degrees and radians. In calculus, this volume pares the technicalities concerning limits down to the essential minimum to make the proofs of basic facts about differentiation and integration both correct and accessible to school teachers and educators; the exposition may also benefit beginning math majors who are learning to write proofs. An added bonus is a correct proof that one can get a repeating decimal equal to a given fraction by the long division of the numerator by the denominator. This proof attends to all three things all at once: what an infinite decimal is, why it is equal to the fraction, and how long division enters the picture. This book should be useful for current and future teachers of K-12 mathematics as well as for some high school students and for education professionals.

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Comprehensive Healthcare Simulation: Implementing Best Practices in Standardized Patient Methodology Gayle Gliva-McConvey,Catherine F. Nicholas,Lou Clark,2020-10-15 This book brings to life best practices of Human Simulation maximizing the Standardized Patient SP methodology that has played a major role in health professions learning and assessment since the 1960s Each chapter reflects the Association of SP Educators Standards of Best Practices SOBPs and provides guidance for implementation Multiple insights are offered through embedded interviews with international experts to provide examples illustrating successful strategies The Human Simulation Continuum Model a practical and theoretical framework is introduced to guide educators in decision making processes associated with

the full range of human simulation The Continuum Model spans improvisations structured role play embedded participants and simulated standardized patients This book also provides the full how to for SP methodology covering topics including case scenario development creating training material training techniques for case portrayal training communication and feedback skills GTA MUTA PTA training SP program administration and professional development for SP Educators A pragmatic user friendly addition to the Comprehensive Healthcare Simulation series Implementing Best Practices in Standardized Patient Methodology is the first book framed by the ASPE SOBPs embracing best practices in human simulation and marshaling the vast expertise of a myriad of SP Educators **iCAN Succeed Handbook** Burt Nadler,2020-11-23

Always remember iCAN is an acronym series of affirmations attitude and action focused strategies to facilitate success of precollege and college students as well as recent graduates and experienced candidates *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 *Active Learning Workbook for Wilkins' Clinical Practice of the Dental Hygienist* Jane F. Halaris,Charlotte J. Wyche,2020-01-16 Designed to accompany Wilkins Clinical Practice of the Dental Hygienist Thirteenth Edition this engaging active learning workbook reinforces important concepts of the main text

Digital Theology Erkki Sutinen,Anthony-Paul Cooper,2021-07-27 Digital theology is an emerging and evolving field of research in academia It is gaining traction with scholars across a variety of subjects including Computer Science Theology Sociology of Religion and the wider Humanities **Public Health Nursing** Marie Truglio-Londrigan,Sandra

Lewenson,2013 With new chapters on disaster management primary health care and new technologies used in public health nursing and public health education this newly revised edition of Public Health Nursing Practicing Population Based Care is a must have resource for students interested in public health nursing and education

Venture Capital, Private Equity, and the Financing of Entrepreneurship Josh Lerner,Ann Leamon,2023-05-02 In the newly revised second edition of Venture Capital Private Equity and the Financing of Entrepreneurship a dedicated team of researchers and professionals delivers an authoritative and comprehensive account of the world of active investing This important work demonstrates how venture capitalists and private equity investors do business and create value for entrepreneurs shareholders and other stakeholders The authors drawing on decades of combined experience studying and participating in the private equity markets discuss the players dynamics and the incentives that drive the industry They also describe various possibilities for the future development of private equity This latest edition is perfect for advanced undergraduate students of finance and business as well as MBA students seeking an insightful and accessible textbook describing the private equity markets

Design, Learning, and Innovation Eva Irene Brooks,Anthony Brooks,Cristina Sylla,Anders Kalsgaard Møller,2021-06-27 This book constitutes the refereed post conference proceedings the 5th EAI International Conference on DLI 2020 Design Learning and Innovation which took place in December 2020 Due to COVID 19 pandemic the conference was held virtually The 14 revised full papers presented were carefully selected from 40 submissions and are organized in four thematic sessions on digital technologies and learning designing for innovation digital games gamification and robots designs for innovative learning

Biomedical Visualisation Ourania Varsou,Paul M. Rea,Michelle Welsh,2022-12-16 This book focuses on the challenges to biomedical education posed by the lockdowns and restrictions to on campus teaching brought about by the COVID 19 pandemic and highlights the tools and digital visualization technologies that have been successfully developed and used for remote teaching Biomedical education for science medical dental and allied health professionals relies on teaching visual and tactile knowledge using practice based approaches This has been delivered for decades via on campus lectures workshops and laboratories teaching practical skills as well as fundamental knowledge and understanding However the arrival of the COVID 19 pandemic meant that education across the globe had to pivot very quickly to be able to deliver these skills and knowledge in a predominantly online environment This brought with it many challenges as Higher Education staff had to adapt to deliver these visual subjects remotely This book addresses the challenges and solutions faced by Higher Education staff in teaching visual content in distance education Chapters include literature reviews original research and pedagogical reflections for a wide range of biomedical subjects degrees such as medicine dentistry and veterinary sciences with examples from undergraduate and postgraduate settings The goal of the book is to provide a compendium of expertise based on evidence gathered during the COVID 19 pandemic as well as reflections on the challenges and lessons learned from this dramatic shift in teaching It also presents new examples of best practices that have emerged

from this experience to ensure that they are not lost as we return to on campus learning in a new era of biomedical teaching This book will be of interest to anyone looking for a helpful reference point when designing online or blended teaching for visual practice based subjects *Advancement in Ancient Civilizations* Harald Haarmann,2020-10-02 Traditional scholarship on how ancient civilizations emerged is outmoded and new insights call for revision According to the well established paradigm Mesopotamia is considered the cradle of civilization Following the cliché of ex oriente lux light from the East all major achievements of humankind spread from the Middle East Modern archaeology cultural science and historical linguistics indicate civilizations did not originate from a single prototype Several models produced divergent patterns of advanced culture developing both hierarchical and egalitarian societies This study outlines a panorama of ancient civilizations including the still little known Danube civilization now identified as the oldest advanced culture in Europe In a comparative view a new paradigm of research and a new cultural chronology of civilizations in the Old and New Worlds emerges with climate change shown to be a continual influence on human lifeways *Popular Science* ,2002-12 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better **Nordic Perspectives on the Responsible Development of the Arctic: Pathways to Action**

Douglas C. Nord,2020-10-30 This book investigates the multifaceted nature of change in today's Nordic Arctic and the necessary research and policy development required to address the challenges and opportunities currently faced by this region It focuses its attention on the recent efforts of the Nordic community to create specialized Centers of Excellence in Arctic Research in order to facilitate this process of scientific inquiry and policy articulation The volume seeks to describe both the steps that lead to this decision and the manner in which this undertaking has evolved The work highlights the research efforts of the four Centers and their investigations of a variety of issues including those related to ecosystem and wildlife management the revitalization resource dependent communities the emergence of new climate born diseases and the development of adequate modeling techniques to assist northern communities in their efforts at adaptation and resilience building Major discoveries and insights arising from these and other efforts are detailed and possible policy implications considered The book also focuses attention on the challenges of creating and supporting multidisciplinary teams of researchers to investigate such concerns and the methods and means for facilitating their collaboration and the integration of their findings to form new and useful perspectives on the nature of change in the contemporary Arctic It also provides helpful consideration and examples of how local and indigenous communities can be engaged in the co production of knowledge regarding the region The volume discusses how such research findings can be best communicated and shared between scientists policymakers and northern residents It considers the challenges of building common concern not just among different research disciplines but also between bureaucracies and the public Only when this bridge building effort is

undertaken can true pathways to action be established

Test Success Patricia M Nugent, Barbara A Vitale, 2020-01-13

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Parliamentary Debates (Hansard). Great Britain. Parliament.

House of Commons, 2001

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