

# ENGINEERING MATHEMATICS

## MIDTERM EXAM REVIEW QUESTIONS

### with answers and solutions

1. 1101 in binary is equivalent to 13 in decimal.
  - a. To convert from binary to decimal, we can use the formula:
  - b.  $\text{decimal number} = a_0 * 2^0 + a_1 * 2^1 + a_2 * 2^2 + \dots + a_n * 2^n$ , where  $a_n$  is the  $n$ th bit from the right.
  - c. For this question, we have:
  - d.  $1 * 2^0 + 0 * 2^1 + 1 * 2^2 + 1 * 2^3 = 13$ .
2. 43 in decimal is equivalent to 101011 in binary.
  - a. To convert from decimal to binary, we can repeatedly divide the decimal number by 2, and write down the remainder. The binary number is the sequence of remainders, read from bottom to top.
  - b. For this question, we have:
  - c.  $43 / 2 = 21$  remainder 1
  - d.  $21 / 2 = 10$  remainder 1
  - e.  $10 / 2 = 5$  remainder 0
  - f.  $5 / 2 = 2$  remainder 1
  - g.  $2 / 2 = 1$  remainder 0
  - h.  $1 / 2 = 0$  remainder 1
  - i. So 43 in decimal is equivalent to 101011 in binary.
3. 11011010 in binary is equivalent to DA in hexadecimal.
  - a. To convert from binary to hexadecimal, we can group the bits into groups of 4, starting from the right, and convert each group to a hexadecimal digit.
  - b. For this question, we have:
  - c. 1101 1010 = DA in hexadecimal.
4. A8 in hexadecimal is equivalent to 10101000 in binary.
  - a. To convert from hexadecimal to binary, we can convert each hexadecimal digit to its 4-bit binary representation.
  - b. For this question, we have:
  - c. A = 1010
  - d. 8 = 1000
  - e. So A8 in hexadecimal is equivalent to 10101000 in binary.
5. 11010110 in binary is equivalent to 326 in octal.

# College Math Midterm Exam Answers

**Marilyn A. Reba, Douglas R. Shier**



## College Math Midterm Exam Answers:

Making a Difference: Volume I and II Sasha A. Barab, Kenneth E. Hay, Nancy Butler Songer, Daniel T. Hickey, 2017-09-05 William Wordsworth 1770 1850 needs little introduction as the central figure in Romantic poetry and a crucial influence in the development of poetry generally This broad ranging survey redefines the variety of his writing by showing how it incorporates contemporary concepts of language difference and the ways in which popular and serious literature were compared and distinguished during this period It discusses many of Wordsworth s later poems comparing his work with that of his regional contemporaries as well as major writers such as Scott The key theme of relationship both between characters within poems and between poet and reader is explored through Wordsworth s construction of community and his use of power relationships A serious discussion of the place of sexual feeling in his writing is also included     **The Collaborative Learning Manual** Vickie Aldrich, 1995     **Puzzles, Paradoxes, and Problem Solving** Marilyn A. Reba, Douglas R. Shier, 2014-12-15 A Classroom Tested Alternative Approach to Teaching Math for Liberal Arts Puzzles Paradoxes and Problem Solving An Introduction to Mathematical Thinking uses puzzles and paradoxes to introduce basic principles of mathematical thought The text is designed for students in liberal arts mathematics courses Decision making situations that progress from recreational problems to important contemporary applications develop the critical thinking skills of non science and non technical majors The logical underpinnings of this textbook were developed and refined throughout many years of classroom feedback and in response to commentary from presentations at national conferences The text s five units focus on graphs logic probability voting and cryptography The authors also cover related areas such as operations research game theory number theory combinatorics statistics and circuit design The text uses a core set of common representations strategies and algorithms to analyze diverse games puzzles and applications This unified treatment logically connects the topics with a recurring set of solution approaches Requiring no mathematical prerequisites this book helps students explore creative mathematical thinking and enhance their own critical thinking skills Students will acquire quantitative literacy and appreciation of mathematics through the text s unified approach and wide range of interesting applications     **Return to Mathematical Circles** Howard Eves, 1988     **Past, Present, and Future of Statistical Science** Xihong Lin, Christian Genest, David L. Banks, Geert Molenberghs, David W. Scott, Jane-Ling Wang, 2014-03-26 Past Present and Future of Statistical Science was commissioned in 2013 by the Committee of Presidents of Statistical Societies COPSS to celebrate its 50th anniversary and the International Year of Statistics COPSS consists of five charter member statistical societies in North America and is best known for sponsoring prestigious awards in stat     Creative Approaches to Technology-Enhanced Learning for the Workplace and Higher Education David Guralnick, Michael E. Auer, Antonella Poce, 2023-09-23 New technologies provide us with new opportunities to create new learning experiences leveraging research from a variety of disciplines along with imagination and creativity The Learning Ideas Conference was created to bring researchers

practitioners and others together to discuss innovate and create The Learning Ideas Conference 2023 was the 16th annual conference and was held as a hybrid event The conference took place from June 14 16 2023 both in New York and online and included a special track The ALICE Adaptive Learning via Interactive Collaborative and Emotional Approaches Special Track Topics covered in this book include among others online learning methodologies diversity and inclusion in learning case studies in university and corporate settings new technologies in learning such as virtual reality augmented reality holograms and artificial intelligence adaptive learning and project based learning The papers included in this book are of interest to researchers in pedagogy and learning theory university faculty members and administrators learning and development specialists user experience designers and others [Academic Integrity in Canada](#) Sarah Elaine Eaton, Julia Christensen Hughes, 2022-03-03 This open access book presents original contributions and thought leadership on academic integrity from a variety of Canadian scholars It showcases how our understanding and support for academic integrity have progressed while pointing out areas urgently requiring more attention Firmly grounded in the scholarly literature globally it engages with the experience of local practitioners It presents aspects of academic integrity that is specific to Canada such as the existence of an honour culture rather than relying on an honour code It also includes Indigenous voices and perspectives that challenge traditional understandings of intellectual property as well as new understandings that have arisen as a consequence of Covid 19 and the significant shift to online and remote learning This book will be of interest to senior university and college administrators who are interested in ensuring the integrity of their institutions It will also be of interest to those implementing university and college policy as well as those who support students in their scholarly work

**Weekly Compilation of Presidential Documents**, 1994 **Ventures Level 4 Teacher's Edition with Assessment Audio CD/CD-ROM** Gretchen Bitterlin, Dennis Johnson, Donna Price, Sylvia Ramirez, 2013-07-12 Ventures 2nd Edition is a six level standards based ESL series for adult education ESL The Ventures 2nd Edition interleaved Level 4 Teacher's Edition includes easy to follow lesson plans for every unit It offers tips and suggestions for addressing common areas of difficulty for students as well as suggested expansion activities for improving learner persistence The Teacher's Edition also explains where to find additional practice in other Ventures components such as the Workbook Online Teacher's Resource Room and Student Arcade Multi skill unit midterm and final tests are found in the back of the Teacher's Edition Also includes an Assessment CD CD ROM which contains audio for each test as well as all the tests in a customizable format [Essential Documents in the History of American Higher Education](#) John R. Thelin, 2021-07-06 The thoroughly updated second edition of this dynamic and thoughtful collection focuses on the issues that have shaped American higher education in the past decade Essential Documents in the History of American Higher Education designed to be used alongside John R Thelin's A History of American Higher Education or on its own presents a rich collection of primary sources that chart the social intellectual political and cultural history of American colleges and universities from the seventeenth century to the present The

documents are organized in sections that parallel the chapters in *A History* both chronologically and thematically and sections are introduced with brief headnotes establishing the context for each source This updated edition of *Essential Documents* focuses on the issues that have shaped American higher education in the past decade from congressional investigations into endowments and court cases about paying student athletes to accounts of campus protests over racial discrimination and adjuncts struggling in the gig economy From the successful fund raising campaigns of 2014 to the closing of campuses because of the COVID 19 pandemic of 2020 the book also includes a new tenth chapter *Prominence and Problems American Higher Education since 2010* and an updated introduction a number of landmark documents including the charter for the College of Rhode Island 1764 the Morrill Land Grant Act 1862 the GI Bill 1944 and the Knight Commission Report on College Sports 2010 and lively firsthand accounts by students and teachers that tell what it was like to be a Harvard student in the 1700s to participate in the campus riots of the 1960s to be a female college athlete in the 1970s or to enroll at UCLA as an economically disadvantaged Latina in the 1990s Thelin even stretches the usual bounds of documentary sources incorporating popular pieces by Robert Benchley and James Thurber on their own college days as well as an excerpt from Groucho Marx's screwball film *Horse Feathers* What emerges is a complex and nuanced collection that reflects the richness of more than three centuries of American higher education

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