

24 March 2021

Revision: November 2020
Mathematics N4 Exam

3.4 The impedance of a circuit is given = $15 + 16j - 4$
by the equation $V_T = \frac{V_1}{V_2 + V_1}$

Calculate V_T

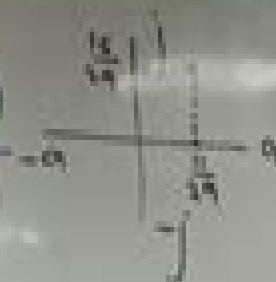
if $V_1 = 3 + j$

$V_2 = 3 + ja$

$V_3 = 2 - j^3$

Leave the answer
in Polar form. Show
all the steps. (5)

$$V_T = \frac{15 + 16j + 4(-1)}{2.5 - 4(-1)}$$



$$= \frac{2.5 + 4}{11 + 16j}$$

$$= \frac{11}{2.9} + \frac{16j}{2.9}$$

Simplified
in Rectangular
form

$$Z = a + jb$$

$$r = \sqrt{a^2 + b^2}$$

$$= \sqrt{\left(\frac{11}{2.9}\right)^2 + \left(\frac{16}{2.9}\right)^2}$$

$$= \frac{\sqrt{332}}{2.9}$$

$$= 0.6695$$

$$= \frac{3 + ja}{2 - j^3 + 3 + j}$$

$$= \frac{3 + ja}{2 - j^3 + 3 + j}$$

$$= \frac{(3 + ja)(5 + j)}{(5 - 2j)(5 + j)}$$

$$= \frac{(15 + 5j + 10j + 4j^2)}{(5)^2 - (2j)^2}$$

$$= \frac{15 + 5j + 10j + 4(-1)}{(5)^2 - (2j)^2}$$

$$= \frac{11 + 16j}{25 - (-4)}$$

$$j = \sqrt{-1}$$

$$(j)^2 = (\sqrt{-1})^2$$

$$(j)^2 = -1$$

$$Z = \left(\frac{11}{2.9} + \frac{16j}{2.9} \right)$$

$$r = 0.6695$$

$$\theta = 55.4913$$

Maths 2013 Nov N4

**Masato Wakayama, Robert S.
Anderssen, Jin Cheng, Yasuhide
Fukumoto, Robert McKibbin, Konrad
Polthier, Tsuyoshi Takagi, Kim-Chuan
Toh**

Maths 2013 Nov N4:

The Abel Prize 2013-2017 Helge Holden, Ragni Piene, 2019-02-23 The book presents the winners of the Abel Prize in mathematics for the period 2013-2017. It features profiles of 17 mathematicians: Pierre Deligne (2013), Yakov G. Sinai (2014), John Nash Jr. and Louis Nirenberg (2015), Sir Andrew Wiles (2016), and Yves Meyer (2017). The profiles feature autobiographical information as well as a scholarly description of each mathematician's work. In addition, each profile contains a Curriculum Vitae, a complete bibliography, and the full citation from the prize committee. The book also includes photos for the period 2003-2017 showing many of the additional activities connected with the Abel Prize. As an added feature, video interviews with the Laureates as well as videos from the prize ceremony are provided at an accompanying website: <http://extras.springer.com>. This book follows on *The Abel Prize 2003-2007: The First Five Years* (Springer, 2010) and *The Abel Prize 2008-2012* (Springer, 2014) which profile the work of the previous Abel Prize winners.

Handbook of Graph Theory Jonathan L. Gross, Jay Yellen, Ping Zhang, 2013-12-17 In the ten years since the publication of the best-selling first edition, more than 1,000 graph theory papers have been published each year. Reflecting these advances, *Handbook of Graph Theory, Second Edition* provides comprehensive coverage of the main topics in pure and applied graph theory. This second edition is over 400 pages longer than its predecessor.

The Impact of Applications on Mathematics Masato Wakayama, Robert S. Anderssen, Jin Cheng, Yasuhide Fukumoto, Robert McKibbin, Konrad Polthier, Tsuyoshi Takagi, Kim-Chuan Toh, 2014-07-18 This book is a collection of papers presented at the Forum The Impact of Applications on Mathematics in October 2013. It describes an appropriate framework in which to highlight how real-world problems over the centuries and today have influenced and are influencing the development of mathematics and thereby how mathematics is reshaped in order to advance mathematics and its application. The contents of this book address productive and successful interaction between industry and mathematicians as well as the cross-fertilization and collaboration that result when mathematics is involved with the advancement of science and technology.

Effective Communication During Disasters Girish Bobby Kapur, Sarah Bezek, Jonathan Dyal, 2016-12-08 This title includes a number of Open Access chapters. In today's world, there are new opportunities for disaster communications through modern technology and social media. Social network applications such as Facebook, Twitter, and Instagram can connect friends, family, first responders, and those providing relief and assistance. However, social media and other modern communication tools have their limitations. They can be affected by disaster situations where there are power outages or interrupted cellular service. The research contained in this valuable compendium offers much-needed information for emergency responders, utility companies, relief organizations, and governments as they invest in infrastructure to support post-disaster communications. In order to make use of modern communication methods as well as fully utilize more traditional communication networks, it is imperative that we understand how people actually communicate in the wake of a disaster situation and how various communication strategies can best be utilized. Communication during and immediately after a disaster situation is a vital component of response and

recovery Effective communication connects first responders support systems and family members with the communities and individuals immersed in the disaster Reliable communication also plays a key role in a community's resilience With research from internationally recognized experts this volume provides an overview of communication challenges and best practice analyses looks at the internet and social media and mobile phones and other technology for disaster communication and explores the challenges to effective communication Presents a quality improvement project that gathered expert consensus on best practices used to improve disaster communication Analyzes the information dissemination mechanisms of different media to establish an efficient information dissemination plan for disaster pre warning including short message service SMS microblogs news portals cell phones television and oral communication Gauges the effectiveness of disaster risk communication Looks at the future of social media use during emergencies and afterwards Proposes a disaster resilient network that integrates various wireless networks into a cognitive wireless network in the event of disaster occurrences

Effective Communication During Disasters Making Use of Technology Media and Human Resources is an informative multi faceted resource on preparedness planning for effective communication before during and after a disaster occurs **FCC Record** United States. Federal Communications Commission, 2016

Indian Art Music: A Computational Perspective Preeti Rao, Hema A. Murthy, S. R. M. Prasanna, 2023-02-05 This monograph presents a diverse collection of articles on Indian Art Music based on analytical work aided by computational tools The book focuses mainly on the current practices in music and its representation in audio recordings a perspective that is particularly relevant to oral traditions It presents a rare and unique example of collaboration between musicians musicologists scientists and engineers The presentation brings together various aspects of research on Indian art music that benefits from audio processing or computing ranging from musicology to information retrieval to instrument modeling It is hoped that the monograph will serve as an accessible introduction to computational approaches for Indian art music in particular and ethnomusicology more generally

Multidisciplinary Approach in Arts, Science & Commerce (Volume- 4) Chief Editor (Author)- Biplab Auddya, Editor- Dr. P. Prasanth Naik, Dr. B. Indira Nayanadevi, Dr. T. Prabakaran, Mrs. C Anisha, Dr. Prakash Chand Thakur, Dr. S. Jayakani, Dr. S. Vennila Fathima Rani, 2023-05-18 Multidisciplinary Approach Research Subject Education is a unique part of education By this education students learn and collect knowledge ideas from different disciplines The present Book volume is based on the Multidisciplinary Research and introduces on different important topics by research paper contributors like Emotional Intelligence A Comparative Study Among Higher Students At Ghaziabad Region Experimental Sperm Cryopreservation of Buenos Aires Tetra Hemigrammus caudovittatus Ahl 1923 using DMSO as cryoprotectant Industrial Robots In Automotive Industry Green Banking A Study On Perceptions Of Customers And Bankers Problems And Prospects Of Women Empowerment In Rural Areas A Case Study Of Khanpur Kalan Multidisciplinary Approach in Arts Science And Commerce Survival Mechanism Of Laid Off Workers In The Era Of Covid 19 And Its Impact On Small Scale Business RIGHT TO MARRY

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Approach in Arts Science Commerce Volume 4 **Metaverse-Based Digital Twins** Rishabha Malviya,Shivam

Rajput,2025-06-04 The book serves as an essential resource that examines the transformative potential of the metaverse and
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Healthcare Applications is a comprehensive guide providing knowledge of the metaverse and digital twin concepts and their
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Empowering Science and Mathematics for Global Competitiveness Yuli Rahmawati, Peter Charles

Taylor, 2019-06-07 This conference proceedings focuses on enabling science and mathematics practitioners and citizens to respond to the pressing challenges of global competitiveness and sustainable development by transforming research and teaching of science and mathematics The proceedings consist of 82 papers presented at the Science and Mathematics International Conference SMIC 2018 organised by the Faculty of Mathematics and Natural Sciences Universitas Negeri Jakarta Indonesia The proceedings are organised in four parts Science Science Education Mathematics and Mathematics Education The papers contribute to our understanding of important contemporary issues in science especially nanotechnology materials and environmental science science education in particular environmental sustainability STEM and STEAM education 21st century skills technology education and green chemistry and mathematics and its application in statistics computer science and mathematics education *Federal Register*, 2013-11 *Cracking the SAT Math 1 & 2 Subject Tests*, Princeton Review, Jonathan Spaihts, 2013-03-05 Provides formulas tips strategies and examples for taking the SAT mathematics tests and includes four full length sample exams **TeeJay SQA National 4 Applications of**

Mathematics Thomas Strang, 2020-08-31 Help students to apply their mathematical skills in real life contexts as they learn and develop through TeeJay s fun and accessible approach to SQA National 4 Applications of Maths This book provides hundreds of practice questions with progression and consolidation the core TeeJay philosophy underpinning every exercise and chapter Contains three freestanding study areas covering Numeracy Geometry Measure and Finance Statistics

Make the World a Better Place Robert Kozma, 2023-04-18 This book is a must read for all with an interest in the future of design Jim Spohrer PhD Retired Industry executive International Society of Service Innovation Professionals The world is in need of better design and Kozma s book shows us how to get there Mark Guzdial Director Program in Computing for the Arts and Sciences College of Literature Science and the Arts Professor of Electrical Engineering and Computer Science College of Engineering University of Michigan Design services products experiences and places that transform the world for the better Make the World a Better Place Design with Passion Purpose and Values presents an insightful and hands on discussion of design as a profoundly human activity and challenges us all to use design to transform the world for the better The book explains how and why the design industry lost its way and how to re ignite the idealism that once made it a force for good

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Mathematics and its Applications Themistocles M. Rassias,Panos M. Pardalos,2016-06-14 This volume dedicated to the eminent mathematician Vladimir Arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by Arnold himself Emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics A number of applications of Arnold s groundbreaking work are presented This publication will assist graduate students and research mathematicians in acquiring an in depth understanding and insight into a wide domain of research of an interdisciplinary nature *Chase's Calendar of Events 2013 with CD-ROM* Editors of Chase's Calendar of Events,Editors of Chases Calendar of Events,2012-09-18 12 500 entries 196 countries 365 days Find out what s going on any day of the year anywhere across the globe If you re looking to tie a promotional event to a special month create a suggested reading list based on a festival halfway around the world blog about a historical milestone or do a celebrity birthday roundup on your radio show or Twitterfeed Chase s Calendar of Events is the one resource that has it all For broadcasters journalists event planners public relations professionals librarians editors writers or simply the curious this is one reference you can t do without Chase s Calendar of Events 2013 brings you Milestones such as the 50th anniversary of the March on Washington the 100th birth anniversary of civil rights activist Rosa Parks the 150th anniversary of the Battle of Gettysburg and the 200th birth anniversaries of composers Giuseppe Verdi and Richard Wagner New birthday entries for sports stars such as Robert Griffin III Feb 12 actors such as Jessica Chastain Mar 24 Jean Dujardin June 19 and Benedict Cumberbatch July 19 musical artists such as Pitbull Jan 15 Adam Levine Mar 18 and Scotty McCreery Oct 9 newsmakers such as Fran oise Hollande Aug 12 and many others Special events such as Dyngus Day Apr 1 Bedbug Awareness Week Apr 22 26 National Polka Festival May 24 26 Lincoln Highway Centennial June 30 July 5 Kids Take Over the Kitchen Day Sept 13 the 34th America s Cup Sept 7 22 or Steamcon V Oct 25 27 Search Chase s Any Way You Want Whether you want to target a specific date location or subject our fully searchable CD ROM PC compatible only makes your research quick and easy Also included is a free installer so you can load Chase s directly to your hard drive *Handbook of Fixed-Income Securities* Pietro Veronesi,2016-03-23 A

comprehensive guide to the current theories and methodologies intrinsic to fixed income securities Written by well known experts from a cross section of academia and finance Handbook of Fixed Income Securities features a compilation of the most up to date fixed income securities techniques and methods The book presents crucial topics of fixed income in an accessible and logical format Emphasizing empirical research and real life applications the book explores a wide range of topics from the risk and return of fixed income investments to the impact of monetary policy on interest rates to the post crisis new regulatory landscape Well organized to cover critical topics in fixed income Handbook of Fixed Income Securities is divided into eight main sections that feature An introduction to fixed income markets such as Treasury bonds inflation protected securities money markets mortgage backed securities and the basic analytics that characterize them Monetary policy and fixed income markets which highlight the recent empirical evidence on the central banks influence on interest rates including the recent quantitative easing experiments Interest rate risk measurement and management with a special focus on the most recent techniques and methodologies for asset liability management under regulatory constraints The predictability of bond returns with a critical discussion of the empirical evidence on time varying bond risk premia both in the United States and abroad and their sources such as liquidity and volatility Advanced topics with a focus on the most recent research on term structure models and econometrics the dynamics of bond illiquidity and the puzzling dynamics of stocks and bonds Derivatives markets including a detailed discussion of the new regulatory landscape after the financial crisis and an introduction to no arbitrage derivatives pricing Further topics on derivatives pricing that cover modern valuation techniques such as Monte Carlo simulations volatility surfaces and no arbitrage pricing with regulatory constraints Corporate and sovereign bonds with a detailed discussion of the tools required to analyze default risk the relevant empirical evidence and a special focus on the recent sovereign crises A complete reference for practitioners in the fields of finance business applied statistics econometrics and engineering Handbook of Fixed Income Securities is also a useful supplementary textbook for graduate and MBA level courses on fixed income securities risk management volatility bonds derivatives and financial markets Pietro Veronesi PhD is Roman Family Professor of Finance at the University of Chicago Booth School of Business where he teaches Masters and PhD level courses in fixed income risk management and asset pricing Published in leading academic journals and honored by numerous awards his research focuses on stock and bond valuation return predictability bubbles and crashes and the relation between asset prices and government policies

Common Core Math 4 Today, Grade 4 Carson-Dellosa Publishing,2013-05-01 This is a perfect supplement to any classroom math curriculum The book covers 40 weeks of daily practice It includes 4 math exercises a day for four days a week A separate assessment is included with every exercise

Confronting Oppressive Assessments Walter S. Polka,John William McKenna,2016-09-14 This book is about doing what s right for public education in the United States in this age of intensive curriculum convergence planned instructional standardization and oppressive accountability procedures Information is presented about

why and how educators parents students community members and policy makers have decided to protest against current state and federal educational policies and procedures The practical experiences of parents teachers principals school superintendents school board members and professors are analyzed in chapters of this book Their first hand experiences with the various components of the current reform movement are poignantly presented Through their voices the frustrations with the serious flaws associated with this reform agenda are passionately and logically articulated They comprehensively explain their personal and professional motivations for organizing and fomenting a rethinking in school reform implementation procedures and they advocate their smarter approach to school reforms in our country The book includes key references that elucidate the need to seriously re think the directions and strategies of contemporary schooling in order to maintain enlightened creative instruction based on exciting student centered curriculum experiences and professional educational judgments

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