



The figure shows points A , B and C with position vectors \mathbf{a} , \mathbf{b} and \mathbf{c} respectively, relative to an origin O . The point P lies on AB such that $AP:AB = 3:4$. The point Q lies on OC such that $OQ:QC = 2:3$.

(i) Express \overrightarrow{AP} in terms of \mathbf{a} and \mathbf{b} and hence show that $\overrightarrow{OP} = \frac{1}{4}(\mathbf{a} + 3\mathbf{b})$. [3]

(ii) Find \overrightarrow{PQ} in terms of \mathbf{a} , \mathbf{b} and \mathbf{c} . [3]

(iii) Given that $5\overrightarrow{PQ} = 6\overrightarrow{BC}$, find \mathbf{c} in terms of \mathbf{a} and \mathbf{b} . [2]

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Mathematical Intelligence Mubeen Junaid, 2022-11-01 A fresh exploration into the human nature versus technology argument revealing an unexpected advantage that humans have over our future robot masters we re actually good at mathematics There s so much discussion about the threat posed by intelligent machines that it sometimes seems as though we should simply surrender to our robot overlords now But Junaid Mubeen isn t ready to throw in the towel just yet As far as he is concerned we have the creative edge over computers because of a remarkable system of thought that humans have developed over the millennia It s familiar to us all but often badly taught in schools and misrepresented in popular discourse math Computers are of course brilliant at totting up sums pattern seeking and performing mindless tasks of well computation For all things calculation machines reign supreme But Junaid identifies seven areas of intelligence where humans can retain a crucial edge And in exploring these areas he opens up a fascinating world where we can develop our uniquely human mathematical talents Just a few of the fascinating subjects covered in MATHEMATICAL INTELLIGENCE include Humans are endowed with a natural sense of numbers that is based on approximation rather than precise calculation Our in built estimation skills complement the precision of computers Interpreting the real world depends on both What sets humans apart from other animals is language and abstraction We have an extraordinary ability to create powerful representations of knowledge more diverse than the binary language of computers Mathematics confers the most robust logical framework for establishing permanent truths Reasoning shields us from the dubious claims of pure pattern recognition systems All mathematical truths are derived from a starting set of assumptions or axioms Unlike computers humans have the freedom to break free of convention and examine the logical consequences of our choices Mathematics rewards our imagination with fascinating and on occasion applicable concepts that originate from breaking the rules Computers can be tasked to solve a range of problems but which problems are worth the effort Questioning is as vital to our repertoire of thinking skills as problem solving itself

Counterparty Risk and Funding Stéphane Crépey, Tomasz R. Bielecki, Damiano Brigo, 2014-06-23 Solve the DVA FVA Overlap Issue and Effectively Manage Portfolio Credit Risk Counterparty Risk and Funding A Tale of Two Puzzles explains how to study risk embedded in financial transactions between the bank and its counterparty The authors provide an analytical basis for the quantitative methodology of dynamic valuation mitigation and hedging of bilateral counterparty risk on over the counter OTC derivative contracts under funding constraints They explore credit debt funding liquidity and rating valuation adjustment CVA DVA FVA LVA and RVA as well as replacement cost RC wrong way risk multiple funding curves and collateral The first part of the book assesses today s financial landscape including the current multi curve reality of financial markets In mathematical but model free terms the second part describes all the basic elements of the pricing and hedging framework Taking a more practical slant the third part introduces a reduced form modeling approach in which the risk of default of the two parties only shows up through their default intensities The fourth

part addresses counterparty risk on credit derivatives through dynamic copula models In the fifth part the authors present a credit migrations model that allows you to account for rating dependent credit support annex CSA clauses They also touch on nonlinear FVA computations in credit portfolio models The final part covers classical tools from stochastic analysis and gives a brief introduction to the theory of Markov copulas The credit crisis and ongoing European sovereign debt crisis have shown the importance of the proper assessment and management of counterparty risk This book focuses on the interaction and possible overlap between DVA and FVA terms It also explores the particularly challenging issue of counterparty risk in portfolio credit modeling Primarily for researchers and graduate students in financial mathematics the book is also suitable for financial quants managers in banks CVA desks and members of supervisory bodies

Mediated Millennials Jeremy Schulz, Laura Robinson, Aneka Khilnani, John Baldwin, Heloisa Pait, Apryl A. Williams, Jenny Davis, Gabe Ignatow, 2019-11-11 Sponsored by the Communication Information Technologies and Media Sociology Section of the American Sociological Association CITAMS Millennials and Media brings together case studies from across the globe to provide a timely examination of Generation Y's media practices

Hello World Hannah Fry, 2018-09-18 Shortlisted for the 2018 Baillie Gifford Prize and the 2018 Royal Society Investment Science Book Prize A beautifully accessible guide One of the best books yet written on data and algorithms Times UK If you were accused of a crime who would you rather decide your sentence a mathematically consistent algorithm incapable of empathy or a compassionate human judge prone to bias and error What if you want to buy a driverless car and must choose between one programmed to save as many lives as possible and another that prioritizes the lives of its own passengers And would you agree to share your family's full medical history if you were told that it would help researchers find a cure for cancer These are just some of the dilemmas that we are beginning to face as we approach the age of the algorithm when it feels as if the machines reign supreme Already these lines of code are telling us what to watch where to go whom to date and even whom to send to jail But as we rely on algorithms to automate big important decisions in crime justice healthcare transportation and money they raise questions about what we want our world to look like What matters most Helping doctors with diagnosis or preserving privacy Protecting victims of crime or preventing innocent people being falsely accused Hello World takes us on a tour through the good the bad and the downright ugly of the algorithms that surround us on a daily basis Mathematician Hannah Fry reveals their inner workings showing us how algorithms are written and implemented and demonstrates the ways in which human bias can literally be written into the code By weaving in relatable real world stories with accessible explanations of the underlying mathematics that power algorithms Hello World helps us to determine their power expose their limitations and examine whether they really are improvement on the human systems they replace

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