

**Question 5**

- (a) If  $y = (\cot^{-1} x)^2$ , show that  $(1+x^2)^2 \frac{d^2 y}{dx^2} + 2x(1+x^2) \frac{dy}{dx} = 2$  [5]
- (b) Find the maximum volume of the cylinder which can be inscribed in a sphere of radius  $3\sqrt{3}$  cm. (Leave the answer in terms of  $\pi$ ) [5]

**Question 6**

- (a) Evaluate:  $\int \frac{\cos^{-1} x}{x^2} dx$  [5]
- (b) Find the area bounded by the curve  $y = 2x - x^2$ , and the line  $y = x$ . [5]

**Question 7**

- (a) Find the Karl Pearson's co-efficient of correlation between  $x$  and  $y$  for the following data: [5]

$x$	16	18	21	20	22	26	27	15
$y$	22	25	24	26	25	30	33	14

- (b) The following table shows the mean and standard deviation of the marks of Mathematics and Physics scored by the students in a school: [5]

	Mathematics	Physics
Mean	84	81
Standard Deviation	7	4

The correlation co-efficient between the given marks is 0.86. Estimate the likely marks in Physics if the marks in Mathematics are 92.

**Question 8**

- (a) Bag A contains three red and four white balls; bag B contains two red and three white balls. If one ball is drawn from bag A and two balls from bag B, find the probability that: [5]
- (i) One ball is red and two balls are white;
- (ii) All the three balls are of the same colour.

# November 2013 Mathematics Question Paper

**Chao Zhang**



## November 2013 Mathematics Question Paper:

**Cambridge IGCSE® Mathematics Core and Extended Coursebook** Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book Cambridge International AS and A Level Mathematics: Pure Mathematics 2 and 3 Revised Edition Coursebook Hugh Neill, Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 2 and 3 P2 and P3 units of Cambridge AS and A Level Mathematics 9709 Additional materials have been added to sections on logarithmic and exponential functions the derivative of  $\tan x$  and vectors All of the review questions have been updated to reflect changes in the style of questions asked in the course Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015 Cambridge IGCSE® and O Level Additional Mathematics Coursebook Sue Pemberton, 2018-02-22 These resources have been created for the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 for first examination from 2020 This coursebook gives clear explanations of new mathematical concepts followed by exercises This allows students to practise the skills required and gain the confidence to apply them Classroom discussion exercises and extra challenge questions have been designed to deepen students understanding and stimulate interest in Mathematics Answers to coursebook questions are in the back of the book *IGCSE* Mer Merlyn , 2015-08-27 Buku IGCSE ini merupakan aplikasi dari pelajaran matematika yang berbasis di University of Cambridge Berisi kumpulan soal lengkap dengan kunci jawaban Memudahkan para siswa dalam menghadapi pelajaran matematika Semoga buku ini bisa menjadi jembatan bagi para siswa yang ingin menguasai mata pelajaran matematika dengan baik **Cambridge International AS and A Level Mathematics: Statistics 2 Coursebook** Steve Dobbs, Jane Miller, Julian Gilbey, 2016-07-14 This popular series has been fully revised and updated to provide full coverage of the latest Cambridge AS and A Level Mathematics syllabus 9709 The renowned author team provide clear and detailed narrative explanations combined with a variety of new material and questions which have been added to all of the titles in the series to ensure that students continue to be engaged and have

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7th International Conference on University Learning and Teaching (InCULT 2014) Proceedings Chan Yuen Fook, Gurnam Kaur Sidhu, Suthagar Narasuman, Lee Lai Fong, Shireena Basree Abdul Rahman, 2015-12-30 The book comprises papers presented at the 7th International Conference on University Learning and Teaching InCULT 2014 which was hosted by the Asian Centre for Research on University Learning and Teaching ACRULeT located at the Faculty of Education Universiti Teknologi MARA Shah Alam Malaysia It was co hosted by the University of Hertfordshire UK the University of South Australia the University of Ohio USA Taylor's University Malaysia and the Training Academy for Higher Education AKEPT Ministry of Education Malaysia A total of 165 papers were presented by speakers from around the world based on the theme Educate to Innovate in the 21st Century The papers in this timely book cover the latest developments issues and concerns in the field of teaching and learning and provide a valuable reference resource on university teaching and learning for lecturers educators researchers and policy makers

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