

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 π) [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.

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Didier Musso



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Table of Contents Mathematics 97question Paper 4june 2013

1. Understanding the eBook Mathematics 97question Paper 4june 2013
 - The Rise of Digital Reading Mathematics 97question Paper 4june 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 97question Paper 4june 2013
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mathematics 97question Paper 4june 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 97question Paper 4june 2013
 - Personalized Recommendations
 - Mathematics 97question Paper 4june 2013 User Reviews and Ratings
 - Mathematics 97question Paper 4june 2013 and Bestseller Lists
5. Accessing Mathematics 97question Paper 4june 2013 Free and Paid eBooks
 - Mathematics 97question Paper 4june 2013 Public Domain eBooks
 - Mathematics 97question Paper 4june 2013 eBook Subscription Services
 - Mathematics 97question Paper 4june 2013 Budget-Friendly Options

6. Navigating Mathematics 97question Paper 4june 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics 97question Paper 4june 2013 Compatibility with Devices
 - Mathematics 97question Paper 4june 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics 97question Paper 4june 2013
 - Highlighting and Note-Taking Mathematics 97question Paper 4june 2013
 - Interactive Elements Mathematics 97question Paper 4june 2013
8. Staying Engaged with Mathematics 97question Paper 4june 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 97question Paper 4june 2013
9. Balancing eBooks and Physical Books Mathematics 97question Paper 4june 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 97question Paper 4june 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mathematics 97question Paper 4june 2013
 - Setting Reading Goals Mathematics 97question Paper 4june 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mathematics 97question Paper 4june 2013
 - Fact-Checking eBook Content of Mathematics 97question Paper 4june 2013
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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