

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

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John Berry



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AS and A Level Maths For Dummies Colin Beveridge, 2016-05-02 Pass your AS A level maths with flying colours Looking to pass your AS and A level maths Look no further AS A Level Maths For Dummies offers detailed simple steps for all of the main types of problems you ll face in your exams offering explanations of how the topics link together advice on how to remember the key facts and methods and ways to structure revision Even if your head is spinning and you don t know where to begin this fun and friendly guide gives in depth support on exactly what you need to know In the big data and digital age maths skills have never been more important to career success AS A Level Maths For Dummies guides you through the skills needed to pass the exams taken at the end of the first and second year of the course It begins with the knowledge needed to get a top grade at GCSE followed by sections on Algebra functions graph sketching and logarithms Geometry coordinate geometry trigonometry and working with shapes and Calculus differentiation integration and differential equations Helps you build the confidence you need to pass your exams Serves as an excellent supplement to classroom learning Makes difficult maths concepts easy to understand Offers in depth support in a fun and friendly style If you re an AS A level student looking to do your very best at exam time AS A Level Maths For Dummies makes it easier **Disha 13 Years CBSE Class 12**

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The Contribution of Mathematics to School STEM Education Judy Anderson, Katie Makar, 2024-06-10 This book presents contemporary STEM education research conducted by mathematics

education researchers and their collaborators which highlights the important and pivotal role of mathematics in school STEM education It showcases evidence of the types of integrated curriculum approaches to STEM education which highlight mathematics as a key component and where mathematical concepts can be learnt through integrated tasks These examples challenge the idea that mathematics is just an application or servant to the other STEM subjects and highlight the contribution that mathematics can make to the understanding and practices of the other STEM subjects This book fills a void in the current research literature on the role of mathematics in STEM education provides evidence of the possibilities for designing integrated STEM curriculum and highlights current understandings of the role of mathematics in school STEM education For researchers it identifies and elaborates gaps to encourage further exploration in this field Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2010 **A Level Maths Core 2** John Berry,2012-05 This study aid contains all the key information that students need to succeed in their Edexcel AS Maths Core 2 module Clear explanations and worked examples are accompanied by Essential notes and Exam tips Find practice exam questions with fully worked answers as well as guidance from examiners on securing top marks Collins Student Support Materials for Edexcel AS Maths Core 2 covers all the content and skills your students will need for their Core 2 examination including Algebra and functions Coordinate geometry in the x y plane Sequences and series Trigonometry Exponentials and logarithms Differentiation Integration EXAM PRACTICE Answers

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material both of these are modeled quite well as tiny loops of current called magnetic dipoles that produce their o

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