

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: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Answers For November 2012 Mathematics Paper 2

Arihant Experts



Answers For November 2012 Mathematics Paper 2:

Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook Sue

Pemberton, Julianne Hughes, 2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Pure Mathematics 2 & 3 matches the corresponding units of the syllabus It clearly indicates materials required for P3 study only and contains materials on topics such as logarithmic and exponential functions trigonometry differentiation integration numerical solutions of equations vectors and complex numbers This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book *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 *Mathematics and Transition to School* Bob Perry, Amy MacDonald, Ann Gervasoni, 2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child's life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this

period of a child's life the opportunities provided by transition to school for young children's mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically

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

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