

5. a. Find $\frac{dy}{dx}$ when $x = 2at$ and $y = 2at^2$

(b) Evaluate : $\int \sin 2x \cdot \sin 3x \, dx$

(c) Determine the interval in which the function $f(x) = \frac{1}{2}x^2 - x$ is increasing or decreasing.

Group 'B'

5 × 2 × 4 = 40

6. a. For any non-empty subsets A, B, C of universal set U, prove that:
 $A - (B \cup C) = (A - B) \cap (A - C)$

Or

Define absolute value of a real number. Also prove that

$$|x| - |y| \leq |x + y|, \forall x, y \in \mathbb{R}$$

b. Sketch the graph of $f(x) = (x-1)^2$ indicating its characteristics.

7. a. Solve for general values of θ :

$$\sin \theta + \sin 2\theta + \sin 3\theta = \cos \theta + \cos 2\theta + \cos 3\theta$$

Or

If $a=2$, $b=\sqrt{6}$ and $c=\sqrt{3}-1$, find the angles of the triangle ABC.

(b) Prove that:
$$\begin{vmatrix} a^2+1 & ab & ac \\ ab & b^2+1 & bc \\ ac & bc & c^2+1 \end{vmatrix} = 1+a^2+b^2+c^2$$

8. a. Solve by inverse matrix or row equivalent method:

$$x - y = 0, \quad 2x - y + 4z = 18, \quad -3x + z + 2 = 0$$

b. Find the equation whose roots are reciprocal of the roots of $x^2 - x + 1 = 0$

9. a. Prove that the circles $x^2 + y^2 + 2ax + c^2 = 0$ and $x^2 + y^2 + 2by + c^2 = 0$

touch each other if $\frac{1}{a^2} + \frac{1}{b^2} = \frac{1}{c^2}$

b. Evaluate :
$$\lim_{x \rightarrow \theta} \frac{x \cos \theta - \theta \cos x}{x - \theta}$$

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Peter Sherran, Janet Crawshaw



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Maths Handbook and Study Guide Grade 11 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book. The book is written in a clear, simple, visual and logical manner. The colour coding facilitates explanations, definitions, formulas, recaps of previous work, hints and ideas. It is easy to read, easy to understand, and it is easy to apply what has been learnt. It works in conjunction with all other Maths books. It is a welcome addition to the Handbook and Study Guide series. The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject. The sub title of the book is Maths Made Easy and this is what it aims to do. Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students. There are exercises in the front of the book and solutions to problems at the back. South African national bibliography, 1999. Classified list with author and title index. (Free version) Abacus & Mental Arithmetic Course Book Mathewmatician, All four arithmetic examples and exercises are provided with detailed and smooth versions of video teaching. It is suitable to Children with strong self learning ability. Parents who train their children on their own. Kindergarten or Primary school teacher. Students majoring in early childhood education or elementary education in universities and colleges. Those who are interested in becoming an abacus and mental arithmetic teacher or are interested in running an abacus and mental arithmetic class. Pure Maths Peter Sherran, Janet Crawshaw, 1997. A good grade at A Level or Scottish Higher Grade can depend on the student's ability to tackle exam questions confidently and to understand the technique involved in answering questions accurately. The aim of this text is to help students learn how to answer questions in an exam environment. It provides an insight into the mind of the examiner, highlighting what makes a good answer, how marks are allocated and what the most common mistakes are. Questions are taken from past papers or newly written by the authors with revision summaries, answers with full working and examiner's tips. They are an ideal complement to A Level study guides.

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