

CBSE Class 12 Maths Sample Paper Set 1

Time: 3 hours

Total Marks: 100

1. All questions are compulsory.
2. The question paper consist of 29 questions divided into four sections A, B, C and D. Section A comprises of 4 questions of one mark each, section B comprises of 8 questions of two marks each, section C comprises of 11 questions of four marks each and section D comprises of 6 questions of six marks each.
3. Use of calculators is not permitted.

SECTION – A

1. Find the inverse of $g: R \rightarrow R, g(x) = 4e^{2x} + 3$ and the domain of the $g^{-1}(x)$
2. What should be the value of n for which the points $(2, -3)$, $(3, 1)$ and $(5, n)$ are collinear?
3. If X is a set of the factors of 30, $a, b \in X$ and $f(a, b, c) = (a + b) * (b' + c)$ where
 - (i) $a + b$ is defined such that $a + b = \text{LCM}(a, b)$
 - (ii) $a * b$ is defined such that $a * b = \text{GCD}(a, b)$
 - (iii) $a' = 30/a$

What is the value of $f(2, 5, 15)$?

4. A parallelogram is constructed on $3\vec{a} + \vec{b}$ and $\vec{a} - 4\vec{b}$ where $|\vec{a}| = 6$ and $|\vec{b}| = 8$ and \vec{a} and \vec{b} are anti-parallel. What is the length of the longer diagonal?

(OR)

If $\vec{a} = \hat{i} + \hat{j} + \hat{k}, \vec{b} = \hat{i} - \hat{j} + 2\hat{k}$ and $\vec{c} = x\hat{i} + (x - 2)\hat{j} - \hat{k}$, and if the vector lies in the plane of vectors \vec{a} and \vec{b} , then what is the value of x ?

SECTION – B

5. Express the matrix $A = \begin{bmatrix} 3 & 7 \\ 1 & 4 \end{bmatrix}$ as sum of two matrices such that one is symmetric and the other is skew symmetric.

(OR)

Maths Paper 1 Grade 12 Past Papers

Mark Steyvers



Maths Paper 1 Grade 12 Past Papers:

Maths Handbook & Study Guide Grade 12 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 Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Psychology (Subject Code 037) CBSE Term II Exam 2021-22 for Class XII Vithika Rahul, Kaveri Dhar, Goyal Brothers Prakashan, 2022-01-01 Score Plus CBSE Question Bank and Sample Question Paper with Model Test Papers in Psychology Subject Code 037 CBSE Term II Exam 2021 22 for Class XII As per the latest CBSE Reduced Syllabus Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021 The latest CBSE Sample Question Paper 2020 21 Solved along with the marking scheme released by the CBSE in October 2020 for the Board Examinations to be held in 2021 10 Sample Papers Solved based on the latest Reduced Syllabus Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021 10 Model Test Papers Unsolved based on the latest Reduced Syllabus Design of the Question Paper and the latest CBSE Sample Question Paper for the Board Examinations to be held in 2021 Goyal Brothers Prakashan

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 X-kit Fet G10 Mathematics , The Times Index , 2013-06 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Time educational supplement Scotland and the Times higher education supplement **Current Literature** , 1951 **South African National Bibliography** , 1994 *Resources in Education* , 1987 **Whitaker's Cumulative Book List** , 1953 **Annual Report** South Africa. Department of Education, 2005 **Joint Volumes of Papers Presented to the Legislative Council and Legislative Assembly** New South Wales. Parliament, 1980 Includes various departmental reports and reports of commissions Cf Gregory Serial publications of foreign governments 1815 1931

Southern African Books in Print ,1994 Instruction papers International correspondence schools,1903
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