#### SUBJECT: MATHEMATICS CLASS: XIII

MAX. MARKS | 100 **DURATION: 3 HRS** 

#### General Instruction:

- (i) All questions are compulsory.
- (ii) This question paper contains 29 questions.
- (iii) Question 1-4 in Section A are very short-answer type questions carrying 1 mark each.
- (iv) Question 5-12 in Section B are short-answer type questions carrying 2 marks each.
- (v) Question 13-23 in Section C are long-answer-I type questions carrying 4 marks each.
- (vi) Question 24-29 in Section D are long-answer-II type questions carrying 6 marks each.

# SECTION - A Questions 1 to 4 carry 1 mark each.

- 1. If the binary operation \* on the set of integers Z, is defined by  $a *b = a + 3b^2$ , then find the value of 2 = 4.
- 2. If  $f: R \rightarrow R$  be defined by  $f(x) = (3 x^3)^{1/3}$ , then find  $f \circ f(x)$ .
- If A is a 3 × 3 matrix, |A| ≠ 0 and |3A| = k |A|, then write the value of k.
- Find a vector in the direction of vector 2i-3j+6k which has magnitude 21 units

Find the unit vector in the direction of vector  $\overrightarrow{PQ}$ , where P and Q are the points (1, 2, 3) and (4, 5, 6), respectively.

#### SECTION - B

#### Onestions 5 to 12 carry 2 marks each.

- 5. Prove that  $\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left( \frac{1-x}{1+x} \right), x \in (0,1)$
- 6. If  $\begin{bmatrix} x-y & z \\ 2x-y & w \end{bmatrix} = \begin{bmatrix} -1 & 4 \\ 0 & 5 \end{bmatrix}$ , find the value of x+y.
- 7. If  $y = \cot^{-1} \sqrt{\frac{1 \sin x}{1 + \sin x}}$ , find  $\frac{dy}{dx}$ .
- **8.** Evaluate:  $\int \frac{xe^x}{(1+x)^2} dx$

#### OR

- Evaluate:  $\int \frac{1}{\sqrt{2\pi x^2}} dx$
- 9. Find the approximate change in the volume V of a cube of side x meters caused by increasing the side by 2%.
- 10. If  $\vec{a}$  and  $\vec{b}$  are perpendicular vectors,  $|\vec{a} + \vec{b}| = 13$  and  $|\vec{a}| = 5$  find the value of  $|\vec{b}|$ .

If  $\vec{a} = 5\vec{i} - \hat{j} - 3\hat{k}$  and  $\vec{b} = \hat{i} + 3\hat{j} - 5\hat{k}$ , then show that the vectors  $\vec{a} - \vec{b}$  and  $\vec{a} + \vec{b}$  are perpendicular.

# **Maths Paper Grade 12**

Joacim Rocklöv

# **Maths Paper Grade 12:**

Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD, 2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country's policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education Last 5+1 Year's CBSE Class 12th Mathematics Solved Question Papers - eBook Jagran Josh, 2017-11-22 This Combo Package prepared by CBSE Exam experts at Jagranjosh com is a kind of must have for the students appearing for Class12th Mathematics Paper in the coming CBSE Board 2018 Exam 1 This Combo Package includes CBSE Class 12 Mathematics Solved Question Paper 2017 CBSE Class 12 Mathematics Solved Question Paper 2016 Set 3 CBSE Class 12 Mathematics Solved Question Paper 2015 Set 2 CBSE Class 12 Mathematics Solved Question Paper 2014 Set 1 CBSE Class 12 Mathematics Solved Question Paper 2013 Set 3 CBSE Class 12 Mathematics Solved Question Paper 2012 Set 3 2 The Package strictly follows the pattern of CBSE Class 12th Syllabus 3 It also contains the detailed explanation for each question solved 4 It will help you strengthen the concepts at class 12th level 5 This Package will surely Build your confidence to score excellent marks in following Board Exam Paper Key Feature Free Class 12th Mathematics 2012 Solved Paper ebook Ideal to understand the exam pattern Will give a clear idea of how to study and what to study for the exam Mathematics 2 Kunihiko Kodaira, See the blurb for Handbook of Research on Mathematics Teaching and Learning Douglas Grouws, 2006-11-01 Japanese Grade 10 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook's twenty nine chapters are complete resources for both current and past work in that particular area Third Symposium Proceedings. New Ways of Teaching and Learning Janina Morska, Alan Rogerson, This volume contains the papers presented at the Third International Symposium on New Ways of Teaching Learning held from August 6 10 2024 at the Aemilia Hotel Bologna Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986 and dedicated to innovation in mathematics statistics science and computer education

world wide **Paper Qualification Syndrome (PQS) and Unemployment of School Leavers** John Oxenham,1982 **Modeling Students' Mathematical Modeling Competencies** Richard Lesh,Peter L. Galbraith,Christopher R.

Haines,Andrew Hurford,2013-03-17 Modeling Students Mathematical Modeling Competencies offers welcome clarity and focus to the international research and professional community in mathematics science and engineering education as well as those involved in the sciences of teaching and learning these subjects *Resources in Education*,2001-10 **Fractals, Graphics, and Mathematics Education** Michael Frame,Benoit Mandelbrot,2002-06-20 Publisher Description

Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes) Jianpan Wang, 2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education The Mathematics Enthusiast Bharath Sriraman, 2014-12-01 The Mathematics Enthusiast TME is an eclectic internationally circulated peer reviewed journal which focuses on mathematics content mathematics education research innovation interdisciplinary issues and pedagogy The journal exists as an independent entity It is published on a print on demand basis by Information Age Publishing and the electronic version is hosted by the Department of Mathematical Sciences University of Montana The journal is not affiliated to nor subsidized by any professional organizations but supports PMENA Psychology of Mathematics Education North America through special issues on various Building a Positive Math Identity Liesl McConchie, 2025-09-01 When brain science meets math research topics success Emotions drive learning This is an essential component of understanding how a student's math identity is closely connected to their math success How a student sees themselves in relation to math is dynamically constructed in their brain and is constantly changing Every learner deserves to exist in harmony with mathematics This book shows you how to make that mantra a reality for all students Liesl McConchie offers an exciting new perspective on math identity through her

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