

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...

Math Paper Grade 11

**Angela Torres, Ho Nguyen, Elizabeth
Hull Barnes, Laura Wentworth**

Math Paper Grade 11:

Mathematics 1 Kunihiro Kodaira, The achievement of Japanese high school students gained world prominence largely as a result of their performance in the International Mathematics Studies conducted by the International Association for the Evaluation of Educational Achievement in the 1960s and 1980s These textbooks Mathematical World volumes 8 to 11 are intended to give U S educators and researchers a first hand look at the content of mathematics instruction in Japan The textbook Japanese Grade 10 covers material that is compulsory This course which is completed by over 97% of all Japanese students is taught four hours per week and comprises algebra including quadratic functions equations and inequalities trigonometric functions and coordinate geometry Japanese Grade 11 is intended for the easier of the electives offered in that grade and is taken by about 40% of the students It covers probability and statistics vectors exponential logarithmic and trigonometric functions and an introduction to differentiation and integration The other 60% of students in grade 11 concurrently take two more extensive courses using the texts Japanese Grade 11 Algebra and Geometry and Japanese Grade 11 Basic Analysis The first consists of fuller treatments of plane and solid coordinate geometry vectors and matrices The second includes a more thorough treatment of trigonometry and a more extensive introduction to differential and integral calculus *Resources in Education* ,2000-10 You Can Do Math Angela White,2022-05-24 You Can Do Math Surviving High School and College Mathematics A Guide for Young Adults and Their Parents Are you struggling in high school or college mathematics Are you a student who just can t seem to unlock the keys to math success Are you a parent who wants to help their child succeed in higher level math but don t know where to start In this book educator Angela White who has privately tutored hundreds of students in high school and college mathematics reveals the unspoken rules for mathematical success Concrete advice for common study errors mixed with success stories of young adults makes You Can Do Math Surviving High School and College Mathematics a must read for any student wishing to improve their grades This book will show you How to study math Tips and Tricks that successful students know The best math courses you should take and the ones you should drop The secret skills to using a textbook or e learning source Surprising ways to take tests effectively deal with test anxiety When to get a tutor The Clues to simplify Problem Solving And more Read this book from cover to cover or use it as a reference guide This book is all you need to unlock the secrets of success in High School and College math With a few small changes in your study approach YOU CAN DO MATH **Making Math Accessible to English Language Learners (Grades 3-5)** r4Educated Solutions,2011-12-30 Making Math Accessible for English Language Learners provides practical classroom tips and suggestions to strengthen the quality of classroom instruction for teachers of mathematics The tips and suggestions are based on research in practices and strategies that address the affective linguistic and cognitive needs of English language learners *A Guide to Detracking Math Courses* Angela Torres,Ho Nguyen,Elizabeth Hull Barnes,Laura Wentworth,2023-05-03 Create a pathway to equity by detracking mathematics The tracked mathematics

system has been operating in US schools for decades However research demonstrates negative effects on subgroups of students by keeping them in a single math track thereby denying them access to rigorous coursework needed for college and career readiness The journey to change this involves confronting some long standing beliefs and structures in education When supported with the right structures instructional shifts coalition building and educator training and support the detracking of mathematics courses can be a primary pathway to equity The ultimate goal is to increase more students access to and achievement in higher levels of mathematics learning especially for students who are historically marginalized Based on the stories and lessons learned from the San Francisco Unified School District educators who have talked the talk and walked the walk this book provides a model for all those involved in taking on detracking efforts from policymakers and school administrators to math coaches and teachers By sharing stories of real world examples lessons learned and prompts to provoke discussion about your own context the book walks you through Designing and gaining support for a policy of detracked math courses Implementing the policy through practical shifts in scheduling curriculum professional development and coaching Supporting and improving the policy through continuous research monitoring and maintenance This book offers the big ideas that help you in your own unique journey to advance equity in your school or district s mathematics education and also provides practical information to help students in a detracked system thrive

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