

**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...**

# Grade 8 2013 Math Question Paper

**Mark Steyvers**



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## **Table of Contents Grade 8 2013 Math Question Paper**

1. Understanding the eBook Grade 8 2013 Math Question Paper
  - The Rise of Digital Reading Grade 8 2013 Math Question Paper
  - Advantages of eBooks Over Traditional Books
2. Identifying Grade 8 2013 Math Question Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Grade 8 2013 Math Question Paper
  - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 8 2013 Math Question Paper
  - Personalized Recommendations
  - Grade 8 2013 Math Question Paper User Reviews and Ratings
  - Grade 8 2013 Math Question Paper and Bestseller Lists

5. Accessing Grade 8 2013 Math Question Paper Free and Paid eBooks
  - Grade 8 2013 Math Question Paper Public Domain eBooks
  - Grade 8 2013 Math Question Paper eBook Subscription Services
  - Grade 8 2013 Math Question Paper Budget-Friendly Options
6. Navigating Grade 8 2013 Math Question Paper eBook Formats
  - ePub, PDF, MOBI, and More
  - Grade 8 2013 Math Question Paper Compatibility with Devices
  - Grade 8 2013 Math Question Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Grade 8 2013 Math Question Paper
  - Highlighting and Note-Taking Grade 8 2013 Math Question Paper
  - Interactive Elements Grade 8 2013 Math Question Paper
8. Staying Engaged with Grade 8 2013 Math Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Grade 8 2013 Math Question Paper
9. Balancing eBooks and Physical Books Grade 8 2013 Math Question Paper
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Grade 8 2013 Math Question Paper
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Grade 8 2013 Math Question Paper
  - Setting Reading Goals Grade 8 2013 Math Question Paper
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 8 2013 Math Question Paper
  - Fact-Checking eBook Content of Grade 8 2013 Math Question Paper
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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