

X - CBSE BOARD - 2018

CODE (30/3)

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Mathematics - Question Paper Solutions

SECTION A

1. What is the value of $(\cos^2 67^\circ - \sin^2 23^\circ)$?

Ans. $\cos^2 67^\circ - \sin^2 23^\circ$
 as $\cos(90^\circ - \theta) = \sin \theta$
 Let $\theta = 23^\circ$
 $\cos(90^\circ - 23^\circ) = \sin 23^\circ$
 $\cos 67^\circ = \sin 23^\circ$
 $\therefore \cos^2 67^\circ = \sin^2 23^\circ$
 $\therefore \cos^2 67^\circ - \sin^2 23^\circ = 0$

2. In an AP, if the common difference $(d) = -4$, and the seventh term (a_7) is 4, then find the first term.

Ans. $a_7 = 4$
 $a + 6d = 4$ (as $a_n = a + (n-1)d$)
 but $d = -4$
 $a + 6(-4) = 4$
 $a + (-24) = 4$
 $a = 4 + 24 = 28$
 Therefore first term $a = 28$

3. Given $\triangle ABC \sim \triangle PQR$, if $\frac{AB}{PQ} = \frac{1}{3}$, then find $\frac{\text{ar } \triangle ABC}{\text{ar } \triangle PQR}$.

Ans. $\frac{A(\triangle ABC)}{A(\triangle PQR)} = \frac{AB^2}{PQ^2}$ (Ratio of area of similar triangle is equal to square of their proportional sides)

Mathematics 1 November2013 Question Paper

Yicheng Fang



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Table of Contents Mathematics 1 November2013 Question Paper

1. Understanding the eBook Mathematics 1 November2013 Question Paper
 - The Rise of Digital Reading Mathematics 1 November2013 Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Mathematics 1 November2013 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 Mathematics 1 November2013 Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mathematics 1 November2013 Question Paper
 - Personalized Recommendations

- Mathematics 1 November2013 Question Paper User Reviews and Ratings
- Mathematics 1 November2013 Question Paper and Bestseller Lists
- 5. Accessing Mathematics 1 November2013 Question Paper Free and Paid eBooks
 - Mathematics 1 November2013 Question Paper Public Domain eBooks
 - Mathematics 1 November2013 Question Paper eBook Subscription Services
 - Mathematics 1 November2013 Question Paper Budget-Friendly Options
- 6. Navigating Mathematics 1 November2013 Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Mathematics 1 November2013 Question Paper Compatibility with Devices
 - Mathematics 1 November2013 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mathematics 1 November2013 Question Paper
 - Highlighting and Note-Taking Mathematics 1 November2013 Question Paper
 - Interactive Elements Mathematics 1 November2013 Question Paper
- 8. Staying Engaged with Mathematics 1 November2013 Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mathematics 1 November2013 Question Paper
- 9. Balancing eBooks and Physical Books Mathematics 1 November2013 Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mathematics 1 November2013 Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mathematics 1 November2013 Question Paper
 - Setting Reading Goals Mathematics 1 November2013 Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mathematics 1 November2013 Question Paper
 - Fact-Checking eBook Content of Mathematics 1 November2013 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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