

GRADE 10 MATHEMATICS MARCH TEST

QUESTION 1

- 1.1 Copy and complete the following table on your answer sheet. Only tick in the applicable columns.

	N	N ₁	Z	Q	Q'	X	X'
$\sqrt{9} + 1$							
$\frac{5}{2}$							
0,75/3							
$\sqrt{5}$							

- 1.2 Determine between which integers the following irrational number lies:

$$\sqrt{17}$$

- 1.3 Use the ladder method to give the prime factors of 5104.

Not to scale, not to copy!

QUESTION 2

Factorise the following expressions:

2.1 $x^2 - 49$

2.2 $2x^2 + 5x - 3$

2.3 $6x^2 - 13x + 6$

2.4 $3x^2 + 9x - 12$

QUESTION 3

Simplify the following expressions:

3.1 $(x - 5)(3x + 2)$

3.2 $6x^2 - 12x + 6$

3.3 $\frac{3x^2 + 12x}{3x}$

QUESTION 4

Simplify the following using the exponential laws.

4.1 $\frac{1}{x^2}$

4.2 $\frac{x^3 \cdot x^2}{x^4}$

Solve for x :

4.3 $2^x - 5 = 11$

QUESTION 5

Solve for x :

5.1 $(x - 3)(x + 5) = 0$

5.2 $3x^2 + 10x + 7 = 0$

5.3 $\frac{1}{x} + \frac{1}{x+1} = \frac{1}{x+2}$

5.4 $\frac{x+2}{x} + 5 > 8$

5.5 Solve x and y simultaneously:

$$\begin{cases} x + y = 10 \\ x - y = 2 \end{cases}$$

5.6 Jane is 3 years older than her sister. Together they are 19 years old.

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QUESTION 6

6.1 Use the following triangle to determine the trigonometric ratios:



6.1.1

6.1.2

6.1.3

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Table of Contents Grade 10 Mathematics Memorandum 2014

1. Understanding the eBook Grade 10 Mathematics Memorandum 2014
 - The Rise of Digital Reading Grade 10 Mathematics Memorandum 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 10 Mathematics Memorandum 2014
 - 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 10 Mathematics Memorandum 2014
 - User-Friendly Interface

4. Exploring eBook Recommendations from Grade 10 Mathematics Memorandum 2014
 - Personalized Recommendations
 - Grade 10 Mathematics Memorandum 2014 User Reviews and Ratings
 - Grade 10 Mathematics Memorandum 2014 and Bestseller Lists
5. Accessing Grade 10 Mathematics Memorandum 2014 Free and Paid eBooks
 - Grade 10 Mathematics Memorandum 2014 Public Domain eBooks
 - Grade 10 Mathematics Memorandum 2014 eBook Subscription Services
 - Grade 10 Mathematics Memorandum 2014 Budget-Friendly Options
6. Navigating Grade 10 Mathematics Memorandum 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 10 Mathematics Memorandum 2014 Compatibility with Devices
 - Grade 10 Mathematics Memorandum 2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 10 Mathematics Memorandum 2014
 - Highlighting and Note-Taking Grade 10 Mathematics Memorandum 2014
 - Interactive Elements Grade 10 Mathematics Memorandum 2014
8. Staying Engaged with Grade 10 Mathematics Memorandum 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 10 Mathematics Memorandum 2014
9. Balancing eBooks and Physical Books Grade 10 Mathematics Memorandum 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 10 Mathematics Memorandum 2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 10 Mathematics Memorandum 2014
 - Setting Reading Goals Grade 10 Mathematics Memorandum 2014
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Grade 10 Mathematics Memorandum 2014
 - Fact-Checking eBook Content of Grade 10 Mathematics Memorandum 2014
 - 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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