

## 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 <sub>1</sub>	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.

$$5104 = 2^4 \times 11 \times 29$$

### 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  $\frac{x^3 \cdot x^2}{x^5}$

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.

$$\begin{cases} J = S + 3 \\ J + S = 19 \end{cases}$$

### 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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**Xiang Xie**



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## **Table of Contents Maths Paper 1 Grade 12 March 201**

1. Understanding the eBook Maths Paper 1 Grade 12 March 201
  - The Rise of Digital Reading Maths Paper 1 Grade 12 March 201
  - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper 1 Grade 12 March 201
  - 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 Maths Paper 1 Grade 12 March 201
  - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper 1 Grade 12 March 201
  - Personalized Recommendations
  - Maths Paper 1 Grade 12 March 201 User Reviews and Ratings
  - Maths Paper 1 Grade 12 March 201 and Bestseller Lists
5. Accessing Maths Paper 1 Grade 12 March 201 Free and Paid eBooks

- Maths Paper 1 Grade 12 March 201 Public Domain eBooks
- Maths Paper 1 Grade 12 March 201 eBook Subscription Services
- Maths Paper 1 Grade 12 March 201 Budget-Friendly Options
- 6. Navigating Maths Paper 1 Grade 12 March 201 eBook Formats
  - ePub, PDF, MOBI, and More
  - Maths Paper 1 Grade 12 March 201 Compatibility with Devices
  - Maths Paper 1 Grade 12 March 201 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper 1 Grade 12 March 201
  - Highlighting and Note-Taking Maths Paper 1 Grade 12 March 201
  - Interactive Elements Maths Paper 1 Grade 12 March 201
- 8. Staying Engaged with Maths Paper 1 Grade 12 March 201
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper 1 Grade 12 March 201
- 9. Balancing eBooks and Physical Books Maths Paper 1 Grade 12 March 201
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper 1 Grade 12 March 201
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 1 Grade 12 March 201
  - Setting Reading Goals Maths Paper 1 Grade 12 March 201
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 1 Grade 12 March 201
  - Fact-Checking eBook Content of Maths Paper 1 Grade 12 March 201
  - 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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