



**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 + 3x - 4 = 0$ (2)
- 1.1.2 $3x + 10x + 5 = 0$ (2)
- 1.1.3 $x = \sqrt{25-16} + 2$ (2)
- 1.1.4 $\log x + 2\log x = 10$ (2)
- 1.1.5 $x^2 = 9$ (2)
- 1.1.6 $2^{3x} + 4^{3x} = 32$ (2)
- 1.2 Simultaneously solve x and y :
 $3x + y = 4$ and $3x^2 + 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-8x + 5 > 3x - 12 < 0$ (2)

QUESTION 2

- 2.1 $x = -0.5 \pm 0.5\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)
- 2.2 Given $g(x) = \frac{2x^2 + 1}{x + 1}$
- 2.2.1 For what values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations.) (2)
- 2.3 Solve $x + 2\sqrt{x} + 1 < 0$. Graphically represent your answer. (5)

- 2.4 Simplify and leave an answer with positive exponents only:

$$\frac{x^2 - 4}{x^2 + 2x - 3} \div \frac{x^2 + 3x + 2}{x^2 - 5x + 6}$$
 (5)
- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (5)

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $1x - 2$, $x + 5$, $3x + 2$
- 3.1.1 Determine the value of x . (2)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-1, 20, -40, 40, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 20$, determine the largest possible numerical value for T_n . (2)
- 3.3 Given $T_n = 12 - 3n$:
- 3.3.1 Which term in the series would be equal to -178 ? (2)
- 3.3.2 Determine the numerical value for the 17th term. (2)

3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3

- James says if he increases the pattern number by one, squares that number and then subtracts the pattern number increased by one he will get the general formula.
- John says he can derive the general formula for the number of dots by taking the number of columns in each pattern and multiplying it by the number of rows.
- Who is correct between James and John? Show your answer. (5)

QUESTION 4

- Given $f(x) = \frac{1}{x^2} + 1$ and $g(x) = -x^2$. The point $(3, -5)$ lies on g .
- 4.1 Determine the value of a . (2)
- 4.2 Draw a neat sketch of the two graphs on the same sets. Show all intercepts with the axes and asymptotes clearly. (5)
- 4.3 Determine the sets of intervals of $f(x)$ that has a positive gradient. (2)

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Ian Pickup



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The School Executive, 1925 **Fort Saint George Gazette** Madras (India : State), 1962-10 American Educational Digest, 1925 Industrial Arts and Vocational Education, 1945 *Rethinking the SAT* Rebecca Zwick, 2013-04-15
Rethinking the SAT is a unique presentation of the latest thoughts and research findings of key individuals in the world of college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century *The City Record* New York (N.Y.), 1903 **Engineering**, 1928 Breaking Barriers Stanley S. Litow, Tina Kelley, 2021 *Breaking Barriers* shows how to redesign high schools so that all students can move on to college and successful careers In a negation of the American Dream a child's zip code is currently a far better predictor of success than hard work intelligence or resilience This book tells the story of a school model that focuses on equity and works to prove that all young people can achieve academic excellence given the right support P TECH Pathways in Technology Early College High School combines public high schools and community colleges in partnership with employers providing both opportunity and support for all students This innovative and effective approach eliminates barriers to replication by engaging all stakeholders The first P TECH which opened in a low income Brooklyn neighborhood is now a model for school reform Praised by President Obama and heads of nations its story is told through the voices of students who have shattered the myths about which students can succeed *Breaking Barriers* is a compelling read It shows that a clear pathway from school to college to career goes beyond an aspiration it is achievable and for all students The global success of P Tech schools is something education government and business leaders need to learn about and get behind Arne Duncan former United States Secretary of Education *Breaking Barriers* is a must read The P Tech story shows that quality schools leading to not just a high school diploma but college completion and career success are critical to our future This is the kind of opportunity and support that must be provided to all students regardless of income or race Darren Walker president Ford Foundation *The Andhra Pradesh Gazette* Andhra Pradesh (India), 1959
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Table of Contents Grade 11 Mathematics Paper 1 November Memorandum

1. Understanding the eBook Grade 11 Mathematics Paper 1 November Memorandum
 - The Rise of Digital Reading Grade 11 Mathematics Paper 1 November Memorandum
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 11 Mathematics Paper 1 November Memorandum
 - 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 11 Mathematics Paper 1 November Memorandum
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 11 Mathematics Paper 1 November Memorandum
 - Personalized Recommendations
 - Grade 11 Mathematics Paper 1 November Memorandum User Reviews and Ratings
 - Grade 11 Mathematics Paper 1 November Memorandum and Bestseller Lists
5. Accessing Grade 11 Mathematics Paper 1 November Memorandum Free and Paid eBooks
 - Grade 11 Mathematics Paper 1 November Memorandum Public Domain eBooks
 - Grade 11 Mathematics Paper 1 November Memorandum eBook Subscription Services
 - Grade 11 Mathematics Paper 1 November Memorandum Budget-Friendly Options

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