

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 - 5x - 6 = 0$ (2)
- 1.1.2 $(2x - 3)(x + 1) = 9$ (3)
- 1.1.3 $x - \sqrt{x - 1} = 3$ (4)
- 1.1.4 $x(x + 18) > -25$ (4)
- 1.1.5 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^{2x} - 2^{x+1} = 12$ (4)
- 1.2 Simultaneously solve x and y :
- $2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 5x - 6 > 0$ (3)
- 1.3.2 $-3(x + 1)(x - 2) < 0$ (3)
- (P1)**

QUESTION 2

- 2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y -intercept is 4. Determine $f(x)$. (5)
- 2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 1}$
- 2.2.1 For which values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)
- 2.3 Solve x if: $\frac{2-x}{x+1} < 0$. Graphically represent your answer. (5)

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

$$\frac{\sqrt{2^4 \cdot 3^{2x+1}}}{2^{2x+1}}$$

(4)

- 2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$. (5)

(P4)

QUESTION 3

- 3.1 The first three terms of a linear series, is given as: $3x - 2$, $x + 1$, $2x + 5$
- 3.1.1 Determine the value of x . (3)
- 3.1.2 Determine the numerical value of T_5 . (2)
- 3.2 Given the quadratic series: $-120, -94, -68, -20, \dots$
- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.1 Determine T_n , the general term of the pattern. (3)
- 3.2.3 Given that $T_n = -4n^2 + 56n - 180$, determine the largest possible numerical value for T_n . (4)
- 3.3 Given $T_n = 13 - 3n$:
- 3.3.1 Which term in the series would be equal to -179 . (3)
- 3.3.2 Determine the numerical value for the 11th 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, square that number and then subtract the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of blocks by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Prove your answer.

(5)

(P4)

QUESTION 4

Given: $f(x) = \frac{x^2}{x+1} - 1$ and $g(x) = -x^2$. The point $(1, -3)$ lies on g .

- 4.1 Determine the value of x . (2)
- 4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)
- 4.3 Determine the axis of symmetry of f that has a positive gradient. (2)

(P1)

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Joacim Rocklöv



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1. Understanding the eBook Maths Paper1 Grade11 2014 Mindset Learn
 - The Rise of Digital Reading Maths Paper1 Grade11 2014 Mindset Learn
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Paper1 Grade11 2014 Mindset Learn
 - 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 Paper1 Grade11 2014 Mindset Learn
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Paper1 Grade11 2014 Mindset Learn
 - Personalized Recommendations
 - Maths Paper1 Grade11 2014 Mindset Learn User Reviews and Ratings

- Maths Paper1 Grade11 2014 Mindset Learn and Bestseller Lists
- 5. Accessing Maths Paper1 Grade11 2014 Mindset Learn Free and Paid eBooks
 - Maths Paper1 Grade11 2014 Mindset Learn Public Domain eBooks
 - Maths Paper1 Grade11 2014 Mindset Learn eBook Subscription Services
 - Maths Paper1 Grade11 2014 Mindset Learn Budget-Friendly Options
- 6. Navigating Maths Paper1 Grade11 2014 Mindset Learn eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Paper1 Grade11 2014 Mindset Learn Compatibility with Devices
 - Maths Paper1 Grade11 2014 Mindset Learn Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Paper1 Grade11 2014 Mindset Learn
 - Highlighting and Note-Taking Maths Paper1 Grade11 2014 Mindset Learn
 - Interactive Elements Maths Paper1 Grade11 2014 Mindset Learn
- 8. Staying Engaged with Maths Paper1 Grade11 2014 Mindset Learn
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Paper1 Grade11 2014 Mindset Learn
- 9. Balancing eBooks and Physical Books Maths Paper1 Grade11 2014 Mindset Learn
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Paper1 Grade11 2014 Mindset Learn
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper1 Grade11 2014 Mindset Learn
 - Setting Reading Goals Maths Paper1 Grade11 2014 Mindset Learn
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper1 Grade11 2014 Mindset Learn
 - Fact-Checking eBook Content of Maths Paper1 Grade11 2014 Mindset Learn
 - 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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