## 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 $x(x + 10) > -25$ (4)

1.1.5 $x^{\frac{2}{3}} = 4$ (3)

1.1.6 $2^{2x} - 4^{x-2} = 12$ (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)

[21]

### QUESTION 2

2.1 $x = -3 \pm 2\sqrt{7}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)

2.2 Given: $g(x) = \dfrac{x^2 - 2x + 1}{x - 4}$

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 $\dfrac{2x}{x+1} < 6$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt[4]{\frac{y^4 \cdot a^{t+1}}{2^{5t+2}}}$$ (4)

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

[24]

### QUESTION 3

3.1 The first three terms of a linear series, is given as: $3x - 2; x + 9; 2x + 5$

3.1.1 Determine the value of $x$. (3)

3.1.2 Determine the numerical value of $T_3$. (2)

3.2 Given the quadratic series: $-128; -94; -46; -26; \dots$

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)

[24]

### QUESTION 4

Given: $f(x) = \dfrac{-3}{x+1} - 1$ and $g(x) = -a^x$. The point $(1; -3)$ lies on $g$.

4.1 Determine the value of $a$. (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)

[9]

# Maths Past Paper November 23

**Joacim Rocklöv**

**Maths Past Paper November 23:**

The book delves into Maths Past Paper November 23. Maths Past Paper November 23 is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Maths Past Paper November 23, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

    - Chapter 1: Introduction to Maths Past Paper November 23
    - Chapter 2: Essential Elements of Maths Past Paper November 23
    - Chapter 3: Maths Past Paper November 23 in Everyday Life
    - Chapter 4: Maths Past Paper November 23 in Specific Contexts
    - Chapter 5: Conclusion

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**Table of Contents Maths Past Paper November 23**

1. Understanding the eBook Maths Past Paper November 23
    - The Rise of Digital Reading Maths Past Paper November 23
    - Advantages of eBooks Over Traditional Books
2. Identifying Maths Past Paper November 23
    - 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 Past Paper November 23
    - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Past Paper November 23
    - Personalized Recommendations
    - Maths Past Paper November 23 User Reviews and Ratings
    - Maths Past Paper November 23 and Bestseller Lists
5. Accessing Maths Past Paper November 23 Free and Paid eBooks
    - Maths Past Paper November 23 Public Domain eBooks
    - Maths Past Paper November 23 eBook Subscription Services
    - Maths Past Paper November 23 Budget-Friendly Options
6. Navigating Maths Past Paper November 23 eBook Formats
    - ePub, PDF, MOBI, and More
    - Maths Past Paper November 23 Compatibility with Devices
    - Maths Past Paper November 23 Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Maths Past Paper November 23
    - Highlighting and Note-Taking Maths Past Paper November 23
    - Interactive Elements Maths Past Paper November 23
8. Staying Engaged with Maths Past Paper November 23

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