

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 $x^{\frac{1}{2}} = 4$ (3)
- 1.1.6 $2^x - 2^{x-1} = 12$ (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 $x = -1 \pm 2\sqrt{2}$ 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: $\frac{2x}{x+1} < 0$. Graphically represent your answer. (5)

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

$$\frac{\sqrt{x^2 y^2 + 1}}{\sqrt{2x^2 + 1}}$$

(4)

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

(3)

(P4)

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_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 -176 ? (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
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

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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Anthony S. Fauci



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The Top Books of the Year Grd11 Nov 2012 Mathsp1 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. Grd11 Nov 2012 Mathsp1 : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Grd11 Nov 2012 Mathsp1

1. Understanding the eBook Grd11 Nov 2012 Mathsp1
 - The Rise of Digital Reading Grd11 Nov 2012 Mathsp1
 - Advantages of eBooks Over Traditional Books
2. Identifying Grd11 Nov 2012 Mathsp1
 - 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 Grd11 Nov 2012 Mathsp1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grd11 Nov 2012 Mathsp1
 - Personalized Recommendations
 - Grd11 Nov 2012 Mathsp1 User Reviews and Ratings
 - Grd11 Nov 2012 Mathsp1 and Bestseller Lists
5. Accessing Grd11 Nov 2012 Mathsp1 Free and Paid eBooks
 - Grd11 Nov 2012 Mathsp1 Public Domain eBooks
 - Grd11 Nov 2012 Mathsp1 eBook Subscription Services
 - Grd11 Nov 2012 Mathsp1 Budget-Friendly Options
6. Navigating Grd11 Nov 2012 Mathsp1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grd11 Nov 2012 Mathsp1 Compatibility with Devices
 - Grd11 Nov 2012 Mathsp1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grd11 Nov 2012 Mathsp1
 - Highlighting and Note-Taking Grd11 Nov 2012 Mathsp1
 - Interactive Elements Grd11 Nov 2012 Mathsp1
8. Staying Engaged with Grd11 Nov 2012 Mathsp1

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grd11 Nov 2012 Mathsp1
9. Balancing eBooks and Physical Books Grd11 Nov 2012 Mathsp1
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grd11 Nov 2012 Mathsp1
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grd11 Nov 2012 Mathsp1
- Setting Reading Goals Grd11 Nov 2012 Mathsp1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grd11 Nov 2012 Mathsp1
- Fact-Checking eBook Content of Grd11 Nov 2012 Mathsp1
 - 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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