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 $(2x-3)(x+2) = 0$ (3)

1.1.3 $x = \sqrt{x-1} + 2$ (4)

1.1.4 $\cos x + \sin x = \cos x$ (4)

1.1.5 $x^2 = x$ (5)

1.1.6 $2^x - 4^{x-1} = 12$ (4)

1.2 Simultaneously solve x and y:
$2x - y = 3$ and $3x^2 - 4xy + y^2 = 4$ (6)

1.3 Solve the following inequalities:

1.3.1 $x^2 + 5x - 6 \geq 0$ (3)

1.3.2 $-5(x+3)(x-2) < 0$ (3)

[34]

QUESTION 2

2.1 $x = -3$ and $x = 2$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)

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

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 $x^2 \cdot \dfrac{x}{x-1} < 1$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only.
$$\dfrac{\sqrt{x^2 y^{a+1}}}{\sqrt[4]{x^{2a+4}}}$$
(4)

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

[34]

QUESTION 3

3.1 The first three terms of a linear series is given as: $3x - 2$, $x + 6$, $2x + 3$

3.1.1 Determine the value of x. (3)

3.1.2 Determine the numerical value of T_4. (2)

3.2 Given the quadratic series: $-4(3)$, -4, -4, -2, ...

3.2.1 Determine the next two terms of the series. (2)

3.2.2 Determine C_n, the general term of the pattern. (3)

3.2.3 Given that $C_n = -4n^2 + 2n - 26$, determine the largest possible numerical value for C_n. (4)

3.3 Given $C_n = 12 - 3n$:

3.3.1 Which term of the series would be equal to -270? (3)

3.3.2 Determine the numerical value for the 15th 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 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. (4)

[34]

QUESTION 4

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

4.1 Determine the value of a. (2)

4.2 Draw a neat sketch of the two graphs on the same axes. Show all intercepts with the axes and asymptotes clearly. (5)

4.3 Determine the axis of symmetry of f that has a positive gradient. (2)

[34]

Mathematics Grade11 P1 November 2014

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Mathematics Grade11 P1 November 2014:

Mathematics Grade11 P1 November 2014: Bestsellers in 2023 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 bestselling books, exploring the fascinating narratives that have charmed audiences this year. Mathematics Grade11 P1 November 2014 : Colleen Hoovers "It Ends with Us" This touching 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 prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding 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. Mathematics Grade11 P1 November 2014 : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 engaging 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 masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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