

SECTION A**QUESTION 1**(a) Solve for x :

$$(1) \quad (x+2)^2 = 3x(x-2) \quad (5)$$

giving your answers correct to one decimal digit.

$$(2) \quad x^2 - 9x \geq 36. \quad (4)$$

$$(3) \quad 3^x - 3^{x-2} = 72. \quad (4)$$

(b) Given: $(2m - 3)(n + 5) = 0$.

Solve for:

$$(1) \quad n \text{ if } m = 1. \quad (1)$$

$$(2) \quad m \text{ if } n \neq -5. \quad (1)$$

$$(3) \quad m \text{ if } n = -5. \quad (2)$$

[17]**QUESTION 2**

$$(a) \quad \text{Evaluate:} \quad \sum_{k=2}^6 \frac{2^{k-1}}{k}. \quad (3)$$

(b) The number of members of a new social networking site doubles every day. On day 1 there were 27 members and on day 2 there were 54 members.

$$(1) \quad \text{Calculate the number of members there were on day 12.} \quad (2)$$

$$(2) \quad \text{The site earns half a cent per member per day. Calculate the amount of money that the site earned in the first 12 days.} \quad (4)$$

Give your answer to the nearest Rand.

(c) Gina plans to start a fitness programme by going for a run each Sunday. On the first Sunday she runs 1 km and plans to increase the distance by 750 m each Sunday. When Gina reaches 10 km, she will continue to run 10 km each Sunday thereafter.



$$(1) \quad \text{Calculate the distance that Gina will run on the 9th Sunday.} \quad (3)$$

$$(2) \quad \text{Determine on which Sunday Gina will first run 10 km.} \quad (2)$$

$$(3) \quad \text{Calculate the total distance that Gina will run over the first 24 Sundays.} \quad (4)$$

[18]

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2013 Mathematics Paperfinal Exam Grade1memorandum: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "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 triumph. 2013 Mathematics Paperfinal Exam Grade1memorandum : 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 evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves 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 compelling stories waiting to be discovered. The novel begins with Richard Pape, 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 exceptional 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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