



**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

- 1.1 Solve for x :
- 1.1.1 $x^2 + 3x - 4 = 0$ (2)
- 1.1.2 $3x + 10x + 5 = 0$ (2)
- 1.1.3 $x = \sqrt{25-16} + 2$ (2)
- 1.1.4 $\log x + 2\log x = 10$ (2)
- 1.1.5 $x^2 = 9$ (2)
- 1.1.6 $2^{3x} + 4^{3x} = 32$ (2)
- 1.2 Simultaneously solve x and y :
 $x + y = 4$ and $3x^2 - 4xy + y^2 = 0$ (5)
- 1.3 Solve the following inequalities:
- 1.3.1 $x^2 + 3x - 4 < 0$ (2)
- 1.3.2 $-8x + 5 > 3x - 12 < 0$ (2)

QUESTION 2

- 2.1 $x = -0.4 \pm 0.2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)
- 2.2 Given $g(x) = \frac{2x^2 + 1}{x - 1}$
- 2.2.1 For what values of x will $g(x)$ be undefined? (2)
- 2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations.) (2)
- 2.3 Solve $x + 2\sqrt{x - 1} = 5$. Graphically represent your answer. (5)

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

$$\frac{a^2 - 4}{a^2 + 4a + 4} \div \frac{a^2 - 9}{a^2 + 3a}$$

(2)

- 2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (2)

P4

QUESTION 3

- 3.1 The first three terms of a linear series is given as: $1x - 2$, $x + 5$, $3x + 2$

- 3.1.1 Determine the value of x . (2)
- 3.1.2 Determine the numerical value of T_5 . (2)

- 3.2 Given the quadratic series: $-1, 20, -40, -40, 20, \dots$

- 3.2.1 Determine the next two terms of the series. (2)
- 3.2.2 Determine T_n , the general term of the pattern. (2)
- 3.2.3 Given that $T_n = -4n^2 + 16n - 10$, determine the largest possible numerical value for T_n . (2)

- 3.3 Given $T_n = 12 - 3n$:

- 3.3.1 Which term in the series would be equal to -170 ? (2)
- 3.3.2 Determine the numerical value for the 17th 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 subtracts the pattern number increased by one he will get the general formula.

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

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

(5)

P4

QUESTION 4

- Given $f(x) = \frac{2x^2 + 1}{x - 1}$ and $g(x) = -x^2$. The point $(3, -5)$ lies on g .

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

P4

Memorandum Of Mathematics Grade 11 November 2014

Rose L. Colby



Memorandum Of Mathematics Grade 11 November 2014:

Applied Public Relations Kathy Brittain Richardson, Marcie Hinton, 2015-03-27 With its practical orientation and scope Applied Public Relations is the ideal text for any public relations case studies or public relations management course that places an emphasis on stakeholder groups Through the presentation of current cases covering a wide variety of industries locations and settings Kathy Richardson and Marcie Hinton examine how real organizations develop and maintain their relationships offering valuable insights into business and organizational management practices The book s organization of case studies allows instructors to use the text in several ways instructors can focus on specific stakeholders by using the chapters presented they can focus on particular issues such as labor relations or crisis management by selecting cases from within several chapters or they can select cases that contrast campaigns with ongoing programs or managerial behaviors A focus on ethics and social responsibility underlies the book and students are challenged to assess the effectiveness of the practices outlined and understand the ethical implications of those choices This Third Edition features 25 new and current domestic and international case studies specifically chosen for their relevancy and relatability to students New Professional Insights commentaries where practitioners respond to a set of questions relating to their work Increased emphasis on ethics and social responsibility Fully enhanced companion website that is connected with the text including a test bank and PowerPoint presentations for instructors and chapter specific discussion questions and additional readings for students

Competency-Based Education Rose L. Colby, 2019-01-02 *Competency Based Education* introduces educators to a new model for anytime anywhere schooling and provides tools and curriculum resources for redesigning the traditional structures of K 12 schools Based on pioneering work across multiple states the book shows how educators can design central elements of competency based education including performance tasks personal learning plans and grading systems to meet the needs and interests of all students Rose L Colby provides critical tools for creating these elements in collaborative teams and engaging stakeholders such as educators parents and community members The book incorporates case studies and voices from the field and examines the variety of competency models that schools have adopted highlighting the benefits for students *Competency Based Education* provides a much needed resource at a time when states districts and schools are working to implement competency based models and experimenting with new accountability systems that include evidence of learning beyond standardized tests

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<https://staging.conocer.cide.edu/data/browse/Documents/Effective%20Writing%20And%20Editing.pdf>

Table of Contents Memorandum Of Mathematics Grade 11 November 2014

1. Understanding the eBook Memorandum Of Mathematics Grade 11 November 2014
 - The Rise of Digital Reading Memorandum Of Mathematics Grade 11 November 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Memorandum Of Mathematics Grade 11 November 2014
 - 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 Memorandum Of Mathematics Grade 11 November 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memorandum Of Mathematics Grade 11 November 2014

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

- Fact-Checking eBook Content of Memorandum Of Mathematics Grade 11 November 2014
- 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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