

**GRADE 12 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

1.1 Solve for x

1.1.1 $x^2 - 9x + 20 = 0$ (3)

1.1.2 $x(x + 3) - 1 = 0$ (correct to 2 decimal points) (3)

1.1.3 $x^2 + 7x < 0$ (3)

1.1.4 $2x^{\frac{2}{3}} = 64$ (4)

1.2 Solve simultaneously for x and y if:

$2x - y = 8$, and
 $x^2 - xy + y^2 = 19$ (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$
 (4)

QUESTION 2

2.1 The terms p , $(2p + 2)$, $(5p + 3)$ form an arithmetic sequence.

Determine:

2.1.1 The value of p . (4)

2.1.2 The rule in the form of $a_n = a + (n - 1)d$. (2)

2.1.3 The 15th term of the sequence. (4)

2.2 x , y , 81 is a geometric sequence.
And $y = 2x - 5$
All terms in the sequences are integers.
Calculate the values of x and y . (10)

[24]

QUESTION 3

Given the sequence 2, 8, 10, 14,

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate T_{10} . (3)

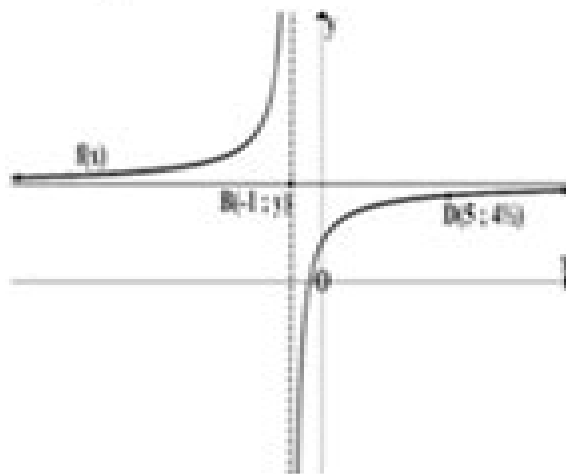
3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

[12]

QUESTION 4

The sketch below shows the graph of $f(x) = \frac{-1}{x+5} + q$. The asymptotes of f intersects at $B(-1; y)$. The Point $D(5; 4)$ is a point on the graph.



4.1 Determine the value of p . (1)

4.2 Prove that $q = 5$. (2)

4.3 Calculate the x -intercept of f . (2)

4.4 Determine the equation of the vertical asymptote of h if $h(x) = f(x + 4)$. (2)

4.5 One of the symmetry axes of f is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values x for $f(x) \geq x + 6$. (2)

4.7 Determine the equation of g , the reflection of f in the x -axis and move two units to the right. (3)

[15]

Maths Memo Pnovember 2013 Grade12

Rose L. Colby



Maths Memo Pnovember 2013 Grade12:

Caught in the Act Cyril Julie, Lorna Holtman, Charles R. Smith, 2019-12-11 The research reported in *Caught in the Act* draws together the insights gained from a continuous professional development initiative for high school mathematics teachers teaching in low socio economic status and socially challenged environments in South Africa The chapters show the possibilities for enhancing achievement in school mathematics if a strength based approach is adopted to develop teaching with teachers and when their concerns are taken seriously The book demonstrates that the ecological relevance fitness for the context in which teachers are teaching of the goods developed and distributed by initiatives should be a major consideration to offer hope for sustainable implementation to improve school mathematics education The book is of interest to mathematics teachers school leaders mathematics curriculum advisors policy makers and researchers

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

Daily Graphic I.K. Nkrumah, 1976-02-17 **Condition of Education** Education Department, 2015-06-25 The *Condition of Education 2015* summarizes important developments and trends in education using the latest available data The report presents 42 indicators on the status and condition of education The indicators represent a consensus of professional judgment on the most significant national measures of the condition and progress of education for which accurate data are available In addition 3 spotlight indicators are featured that describe selected issues of current policy interest

The Making of Twenty-First-Century Richmond Thad Williamson, Julian M. Hayter, Amy L. Howard, 2024-12-02 Richmond Virginia took center stage globally in the summer of 2020 as an epicenter of antiracist protests in the wake of the police murder of George Floyd In a period of just a few weeks overwhelming public support grew for removing Richmond's Confederate monuments Activists then transformed the remaining statue of Robert E Lee into a shrine to African American resolve to the Black Lives Matter movement and to Black victims of police brutality Coming to terms with Richmond's tortured racial history however is much more difficult than toppling symbols of white supremacy This book explores these dynamics via a multidisciplinary framework of historical research public policy analysis and political

analysis showing the inner dynamics of politics and governance in Richmond The authors reveal why change and progress has often been so difficult to achieve and why that matters with a focus on three fundamental policy areas education economic development and housing The result is a comprehensive assessment of urban governance in a major southern city in the early twenty first century as well as an accounting of the policy and human consequences of both its limited successes and its recurring failures

Discrimination based on Colour, Ethnic Origin, Language, Religion and Belief in Turkey's Education System Nurcan Kaya, 2015-10-27 The Turkish government is urged to make a fundamental shift in its approach to education by Minority Rights Group International MRG in a new report A long standing focus on state building has been supplemented by increasing emphasis on religious teaching Both feature strongly in the education system in Turkey making schools a focus of discrimination The report Discrimination based on Colour Ethnic Origin Language Religion and Belief in Turkey's Education System reveals evidence of discrimination of minority groups and suggests comprehensive reforms to effectively ensure equality The national education system which for decades aimed to create young Turkish nationalists has in recent years become a vehicle for raising young religious Turkish nationalists says Nurcan Kaya Turkey Coordinator of Minority Rights Group International Religious education is compulsory from grade four in primary schools While some information on world religions has been introduced the emphasis remains on teaching Sunni Muslim religious practices Children of Jewish and Christian families may apply to opt out but the process can be cumbersome and in many schools alternatives are not provided for them Non Muslim students who have opted out can still find themselves having to remain in the religious instruction class or alternatively having to wander in the school corridor making them vulnerable to taunts from pupils and even teachers The opt out possibility is still not available to children of other minorities Another issue is mother tongue education In 2012 a new elective on the living languages and dialects in Turkey was introduced but due to various limitations minorities remain marginalised others in the education system Subsequent to the 2012 reform the report monitors discrimination in the formal education system in the period of the academic year of 2014 2015 The findings are based on the field work of the Monitoring Discrimination in Education Network an alliance of 16 organizations working in Turkey The report compiles numerous cases of discrimination based on language religion ethnicity skin colour and the level of income In order to bring about a fundamental solution to these problems in the education system the government must prioritise developing an approach that sees all groups as equal and that responds to demands for rights based on such an understanding of equality says Kaya The report highlights that Turkey has no anti discrimination law or an equality commission to which victims of discrimination can apply The existing legislation contains no effective and accessible means of judicial remedies or compensation Therefore many discriminatory practices are not reported to school administrations The entire education system is based on Turkishness Non Turkish groups are either not referred to or referred in a negative way says Kaya Education system has played a significant role in deepening conflict in society The positive representation of other

groups in the education system would contribute to social peace and harmony In order to resolve the many problems in the education system that the current approach causes the overall aim of government education policy should be cleared of ideological references and the protection of children s best interests and the right to education in line with international standards should be considered its fundamental goal says the report **Who's who Among Students in American Universities and Colleges** Henry Pettus Randall,1973

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