

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43^\circ + \cos 47^\circ$ (1)

1.1.2 $\tan^2 50^\circ$ (1)

1.1.3 $\cot 33^\circ + \operatorname{cosec} 15^\circ$ (1)

1.2 If $A = 34,3^\circ$ and $B = 22,2^\circ$, calculate the following to two decimal places:

1.2.1 $\sin (A + B)$ (2)

1.2.2 $\sec \left(\frac{A}{2} \right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (1)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (1)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (1)

[12]

QUESTION 2

Without the use of a calculator, answer the following questions:

2.1 Given $\cos \theta = -\frac{1}{2}$ and $0^\circ \leq \theta \leq 180^\circ$
Use a diagram to determine the values of:

2.1.1 $\tan (180^\circ + \theta)$ (1)

2.1.2 $3\sin (\theta - 90^\circ)$ (2)

2.2 Simplify the following expression: $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ)}$ (5)

2.3 Proof that: $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$ (4)

2.4 Determine the general solution for: $3\sin^2 \theta = 1 + \sin \theta$ (6)

[28]

QUESTION 3

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$ and $g(x) = \sin 2x$, for the interval $-90^\circ \leq x \leq 180^\circ$.

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of $\cos \theta - \cos \phi$, without the use of a calculator.



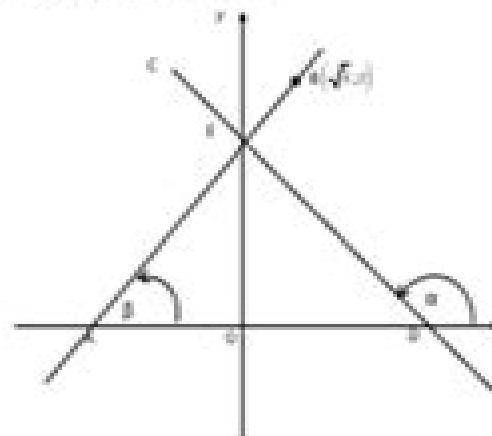
(5)
[10]

QUESTION 4

In the diagram below, the angle between line AB and the x-axis is β . The angle between line CD and the x-axis is θ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 2)$.

The intercept point E, of lines AB and CD lies on the y-axis. $\angle EDC = 63,69^\circ$

The equation of the line CD is given as: $3x + 2y = 6$



4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of α . (2)

4.3 Calculate the numerical value of β . (2)

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Grade 11

Rose L. Colby



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Bloomberg Chris McNickle, 2017-09-19 Examine the Bipartisan Legacy of a Remarkable Billionaire Politician Bloomberg A Billionaire's Ambition tells the story of how one of America's most successful entrepreneurs was elected mayor of New York City and what he did with the power he won Bloomberg's stunning victory against all odds just weeks after the 9/11 terrorist attack left him facing challenges unlike any mayor in history For the next twelve years he kept the city safe managed budgets through fiscal crises promoted private sector growth generated jobs built infrastructure protected the environment supported society's cultural sensibilities and achieved dramatic improvements in public health Bloomberg was an activist executive who used government assets boldly and wisely for the greatest good for the greatest number of people His time as mayor was not without controversy Bloomberg supported stop and frisk police tactics that a judge ruled unconstitutional and jailhouse violence rose to levels so severe the federal government intervened The administration's homeless policies were ineffective And he forced a change in the city charter to allow him to serve a third term Overall record low crime and the lasting impact of innovative policies will cause his tenure to be remembered as a remarkable success Having returned to his global media empire and to his private philanthropy Bloomberg continues to challenge the National Rifle Association on gun control promote national education reform and support policies to combat climate change Frequently touted as an independent candidate for president Bloomberg leaves behind a legacy of effective government

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

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

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

The New Localism Bruce Katz, Jeremy Nowak, 2018-01-09 The New Localism provides a roadmap for change that starts in the communities where most people live and work In their new book *The New Localism* urban experts Bruce Katz and Jeremy Nowak reveal where the real power to create change lies and how it can be used to address our most serious social economic and environmental challenges Power is shifting in the world downward from national governments and states to cities and metropolitan communities horizontally from the public sector to networks of public private and civic actors and globally along circuits of capital trade and innovation This new locus of power this new localism is emerging by necessity to solve the grand challenges characteristic of modern societies economic competitiveness social inclusion and opportunity a renewed public life the challenge of diversity and the imperative of environmental sustainability Where rising populism on the right and the left exploits the grievances of those left behind in the global economy new localism has developed as a mechanism to address them head on New localism is not a replacement for the vital roles federal governments play it is the ideal complement to an effective federal government and currently an urgently

needed remedy for national dysfunction In *The New Localism* Katz and Nowak tell the stories of the cities that are on the vanguard of problem solving Pittsburgh is catalyzing inclusive growth by inventing and deploying new industries and technologies Indianapolis is governing its city and metropolis through a network of public private and civic leaders Copenhagen is using publicly owned assets like their waterfront to spur large scale redevelopment and finance infrastructure from land sales Out of these stories emerge new norms of growth governance and finance and a path toward a more prosperous sustainable and inclusive society Katz and Nowak imagine a world in which urban institutions finance the future through smart investments in innovation infrastructure and children and urban intermediaries take solutions created in one city and adapt and tailor them to other cities with speed and precision As Katz and Nowak show us in *The New Localism* Power now belongs to the problem solvers

Rethinking the SAT Rebecca Zwick, 2013-04-15 *Rethinking the SAT* is a unique presentation of the latest thoughts and research findings of key individuals in the world of college admissions including the president of the largest public university system in the U S as well as the presidents of the two companies that sponsor college admissions tests in the U S The contributors address not only the pros and cons of the SAT itself but the broader question of who should go to college in the twenty first century

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