

**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: $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(240^\circ + 40^\circ)}$ (5)

2.3 Prove 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)

Grade 1november 2013 Mathematics Pmemo

Suzanne Bouffard



Grade 1 November 2013 Mathematics Pmemo:

The Most Important Year Suzanne Bouffard, 2017-09-05 An eye opening look inside pre K in America and what it will take to give all children the best start in school possible At the heart of this groundbreaking book are two urgent questions What do our young children need in the earliest years of school and how do we ensure that they all get it Cutting edge research has proven that early childhood education is crucial for all children to gain the academic and emotional skills they need to succeed later in life Children who attend quality pre K programs have a host of positive outcomes including better language literacy problem solving and math skills down the line and they have a leg up on what appears to be the most essential skill to develop at age four strong self control But even with this overwhelming evidence early childhood education is at a crossroads in America We know that children can and do benefit but we also know that too many of our littlest learners don't get that chance millions of parents can't find spots for their children or their preschoolers end up in poor quality programs With engrossing storytelling journalist Suzanne Bouffard takes us inside some of the country's best pre K classrooms to reveal the sometimes surprising ingredients that make them work and to understand why some programs are doing the opposite of what is best for children It also chronicles the stories of families and teachers from many backgrounds as they struggle to give their children a good start in school This book is a call to arms when we are at a crucial moment and perhaps on the verge of a missed opportunity We now have the means and the will to have universal pre kindergarten but we are also in grave danger of not getting it right

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 *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 Maths Edge Memo Natalie Burger,2018

Grade 1november 2013 Mathematics Pmemo Book Review: Unveiling the Power of Words

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