

**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:  $\frac{\sin (-230^\circ)}{\cos (260^\circ)} + \frac{\cos (90^\circ)}{\sin (260^\circ + 40^\circ)}$  (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  $\beta$ . The angle between line CD and the x-axis is  $\theta$ . 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  $\alpha$ . (2)

4.3 Calculate the numerical value of  $\beta$ . (2)

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**Language Contact. Volume 2** Jeroen Darquennes, Joseph C. Salmons, Wim Vandenbussche, 2025-04-21 Targeting a full range of students and scholars this volume provides a total of 50 chapters illustrating the linguistic dynamics and the dynamics of inter individual and societal language contact as well as the dynamics of multidisciplinary language contact studies Fueled by a wealth of data from a rich variety of contact situations its geographically balanced case studies are governed by the triangulation between a focus on language structure and change a sincere drive of sociopolitical and academic agency and the confrontation with an everyday reality that can be unkind to and ignorant of those two factors The volume clearly demonstrates the social relevance of our trade in a time burdened with ecolinguistic challenges

*Business Research* Pieter W. Buys, Merwe Oberholzer, 2023-03-14 This book focuses on research methodologies that apply to business research particularly for researchers and managers embarking thereon to support managerial decision making in the industry In doing so the book's objective is to guide business researchers in identifying defining and applying rigorous academic methodologies that will enable them to formulate design and execute effective research that answers their specific management problems Such guidance can empower organizational managers to understand that business research can contribute to practical solutions to actual problems experienced in the industry In addition by emphasizing the integrative nature between 1 academic research and 2 experienced industry problems it becomes possible to foster an awareness of such research's potential impact on organizational performance management sustainability and resilience With that attention is given to narrowing the gap between theory and practice which requires that fundamentals of scientific research be adhered to while maintaining the delicate balance between a practice friendly guide to pragmatically sound and academically rigorous business research

*Research Anthology on Vocational Education and Preparing Future Workers* Management Association, Information Resources, 2022-04-08 Many students across the globe seek further education for future employment opportunities Vocational schools offer direct training to develop the skills needed for employment New emphasis has been placed on reskilling the workforce as technology has infiltrated all aspects of business Teachers must be prepared to teach these new skill requirements to allow students to directly enter the workforce with the necessary competences intact As the labor market and industry are changing it is essential to stay current with the best teaching practices within

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