

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 $\cos 30^\circ \times \csc 15^\circ$ (1)

1.2 If $A = 24.3^\circ$ and $B = 22.2^\circ$, calculate the following to two decimal places:

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

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

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (2)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (2)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (2)

QUESTION 2

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

2.1 Given $\cos \theta = -\frac{1}{2}$ and $180^\circ \leq \theta \leq 180^\circ$

Use a diagram to determine the values of:

2.1.1 $\tan(180^\circ + \theta)$ (2)

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

2.2 Simplify the following expression $\frac{\sin(-180^\circ)}{\cos(360^\circ)} + \frac{\cos(0^\circ)}{\sin(360^\circ)}$ (2)

2.3 Prove that $\tan^2 \theta - 1 = \frac{1}{\cos^2 \theta} - 1 = \frac{1}{1 + \tan^2 \theta}$ (4)

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

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 $-180^\circ \leq x \leq 180^\circ$.

Show the coordinates of the turning points and all axis intercepts.

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



(2)

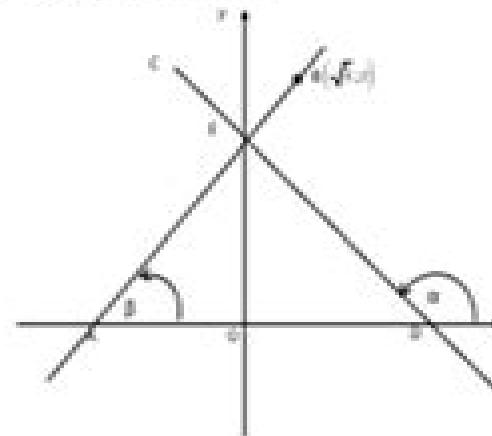
(2)
[14]

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 β . A and C are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(\sqrt{3}, 1)$.

The intercept point E of lines AB and CD lies on the y-axis. $\angle C = 60.69^\circ$

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



(2)

(2)

(2)

4.1 Determine the coordinates of E.

4.2 Calculate the numerical value of α .

4.3 Calculate the numerical value of β .

(2)

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Jiyuan Zhang

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