

## 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)

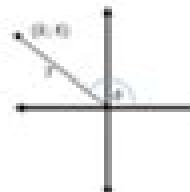
#### QUESTION 3

- 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)

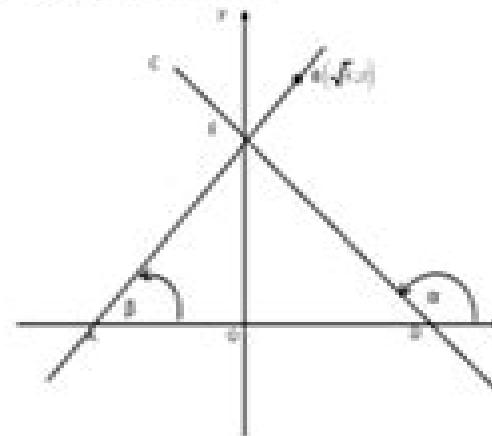
(2)  
[14]

#### QUESTION 4

In the diagram below, the angle between line AB and the x-axis is  $\beta$ . The angle between line CD and the x-axis is  $\beta$ . 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  $\alpha$ .

- 4.3 Calculate the numerical value of  $\beta$ .

(2)

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**Yan Bai**

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