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 $\tan^2 51^\circ$ (1)

1.1.3 $\cot 33^\circ \times \operatorname{cosec} 15^\circ$ (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 $\sec\left(\frac{A}{2}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30^\circ + \cos 60^\circ$ (3)

1.3.2 $\tan 45^\circ + \cos 45^\circ$ (3)

1.3.3 $\cos 90^\circ + \sin 90^\circ$ (3)

[13]

QUESTION 2

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

2.1 Given: $\cos\theta = -\frac{5}{7}$ and $0^\circ \leq \theta \leq 180^\circ$

Use a diagram to determine the values of:

2.1.1 $\tan(180^\circ + \theta)$ (3)

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

2.2 Simplify the following expression: $\frac{\sin(-\alpha)\tan 2\alpha^\circ}{\cos(360^\circ)} + \frac{\cos(\alpha + 90^\circ)}{\sin(360^\circ + \alpha)}$ (5)

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

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

[20]

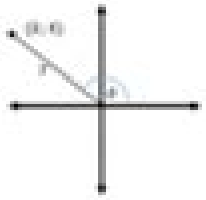
QUESTION 3

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 $\cos\theta - \cos\alpha$, without the use of a calculator.



(5)

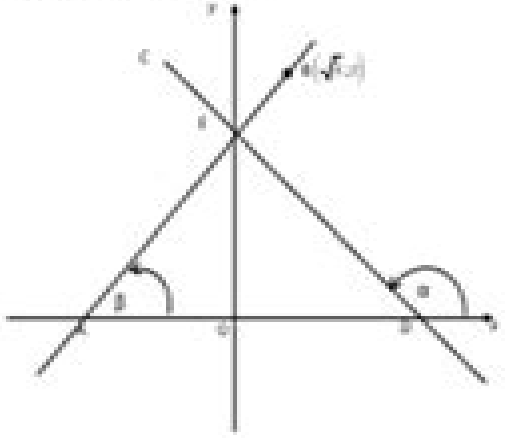
[10]

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 β. A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B is: $(\sqrt{3}; t)$.

The intercept point E, of lines AB and CD lies on the y-axis. $\hat{A}\hat{E}D = 63,69^\circ$

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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