Summaries SA

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GRADE 11 MATHEMATICS

NOVEMBER EXAMINATION PAPER 2

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 43° + \cos 47°$ (1)

1.1.2 $\tan^2 5.0°$ (1)

1.1.3 $\cot 33° \times \operatorname{cosec} 15°$ (1)

1.2 If A = 24,3° and B = 22,2°, calculate the following to two decimal places:

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

1.2.2 $\operatorname{sec}\left(\frac{A}{B}\right)$ (2)

1.3 Calculate the following without the use of a calculator:

1.3.1 $\sin 30° + \cos 60°$ (3)

1.3.2 $\tan 45° + \cos 45°$ (3)

1.3.3 $\cos 90° + \sin 90°$ (3)

[15]

QUESTION 2

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

2.1 Given $\cos\theta = -\frac{1}{2}$ and $0° \leq \theta \leq 180°$
Use a diagram to determine the values of:

2.1.1 $\tan(180° + \theta)$ (3)

2.1.2 $3\sin(\theta - 90°)$ (2)

2.2 Simplify the following expression: $\frac{\sin(-180°)}{\cos(360°)} + \frac{\cos(\theta + 90°)}{\sin(180° + \theta)}$ (5)

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

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

[20]

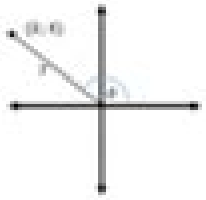
QUESTION 3

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 $-90° \leq x \leq 180°$.

Show the coordinates of the turning points and all axis intercepts. (5)

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

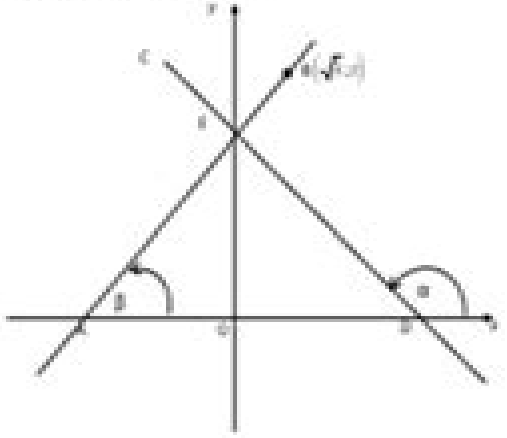


(5)

[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. $A\hat{E}D = 63,69°$
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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