

GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 42^\circ + \cos 42^\circ$ (1)

1.1.2 $\tan^2 30^\circ$ (1)

1.1.3 $\cot 32^\circ + \operatorname{cosec} 15^\circ$ (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 $\sin\left(\frac{A}{B}\right)$ (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 $3\sin(\theta - 90^\circ)$ (1)

2.2 Simplify the following expression: $\frac{\sin(-2\alpha)}{\cos(2\alpha)} + \frac{\cos(\alpha+90^\circ)}{\sin(3\alpha+90^\circ)}$ (1)

2.3 Prove 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]

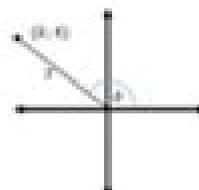
QUESTION 3

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 $-90^\circ \leq x \leq 180^\circ$.

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

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



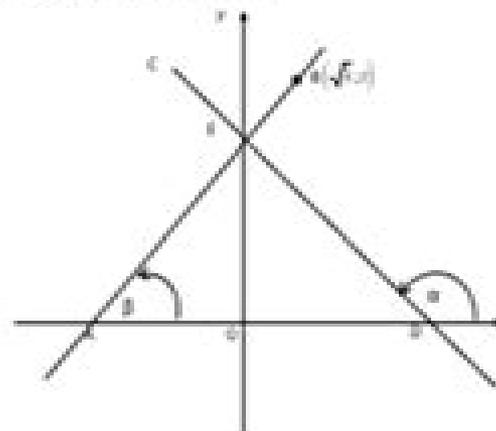
(5)
[10]

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 θ . A and B are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(7, 4)$.

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

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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Xiang Xie



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web $p_1v_1 u_1 v_2 z_1 q p_2v_2 u_2 v_2 z_2 w p_1v_1 u_1 h_1$ enthalpy of steam at inlet $p_2v_2 u_2 h_2$ enthalpy of steam at exit $h_1 v_2 z_1 q h_2 v_2 z_2 w$ generally changes in potential energy are negligible $z_1 z_2$ if no heat is supplied from the surroundings then $q = 0$

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web velocity diagram fig 7 velocity diagram of pressure compounded reaction turbine the velocity diagram given in figure 7 gives a detail about the various components of steam velocity and blade velocity symbols have the same meaning as above see also pressure compounding in turbines references

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