

GRADE 11 MATHEMATICS MARCH TEST

QUESTION 1

1.1 Solve for x :

1.1.1 $2x^2 - 5x + 2 = 0$ (4)

1.1.2 $x^2 - 2x + 1 = 0$ (4)

1.1.3 $x^2 - 4x + 4 = 0$ (correct to 2 decimal points) (4)

1.1.4 $x^2 - 6x + 9 = 0$ (by completing the square, leave your answer in surd form) (5)

1.2 Solve x and y simultaneously:

$y - x = -5$ and $x^2 + y^2 = 25$ (6)

1.3 For which values of x will the expression $x^2 - 4x + 4$ be non-real? (3)

1.4 Simplify, without the use of a calculator:

1.4.1 $\frac{1}{\sin 30^\circ} - \frac{1}{\cos 60^\circ}$ (4)

1.4.2 $\frac{1}{\sin 45^\circ} - \frac{1}{\cos 45^\circ}$ (5)

1.5 Without solving the equation, determine the nature of the roots for the following expression:

$x^2 - 4x + 4 = 0$ (3)
[28]

QUESTION 2

2.1 $\sin \theta = \frac{1}{2}$, calculate the value of:

2.1.1 $(\sin \theta + \cos \theta)^2$ (2)

2.1.2 $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta$ (2)

2.2 Given $\sin \theta = \frac{1}{2}$ and $\theta \in (90^\circ, 270^\circ)$

2.2.1 $\cos \theta = \frac{1}{2}$ (4)

2.3 Simplify: $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta$

2.3.1 $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta$ (4)

2.4 Solve θ without using a calculator

$\sin \theta = \frac{1}{2}$ (2)

2.5 Simplify to a single trigonometric ratio: $\frac{1}{\sin \theta} - \frac{1}{\cos \theta}$

$\frac{1}{\sin \theta} - \frac{1}{\cos \theta}$ (3)

2.6 Prove that: $\sin^2 \theta + \cos^2 \theta = 1$

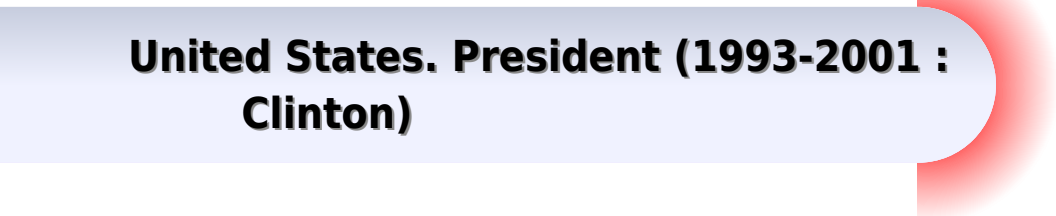
$\sin^2 \theta + \cos^2 \theta = 1$ (3)

[22]

GRAND TOTAL: 60 MARKS

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**United States. President (1993-2001 :
Clinton)**



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