

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 $x^2 - 4x + 4 = 0$ (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 $\sqrt{x^2 - 4}$ be non-real? (3)

1.4 Simplify, without the use of a calculator:

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

1.4.2 $\frac{1}{\sin 30^\circ} - \frac{\cos 60^\circ}{\sin 60^\circ}$ (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 Given $\sin \theta = \frac{3}{5}$, 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 $\sin \theta = \frac{3}{5}$ and $\theta \in (90^\circ, 270^\circ)$

2.2.1 $\cos \theta$ (4)

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

(4)

2.4 Solve θ without using a calculator

$\sin \theta = \frac{1}{2}$, $\theta \in (0^\circ, 90^\circ)$ (2)

2.5 Simplify to a single trigonometric ratio: $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta$

(3)

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

(3)

[22]

GRAND TOTAL: 60 MARKS

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Ying-Ying Zheng



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