

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

1.4 Simplify, without the use of a calculator:

1.4.1 $\frac{2\sqrt{3} - \sqrt{12}}{\sqrt{3} - \sqrt{4}}$ (4)

1.4.2 $\frac{2\sqrt{3} - \sqrt{12}}{\sqrt{3} - \sqrt{4}}$ (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

2.4.1 $\sin \theta = \frac{1}{2}$ (2)

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

2.5.1 $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta$ (3)

2.6 Prove that: $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta = 2$

2.6.1 $\frac{\sin \theta + \cos \theta}{\sin \theta} \times 2 \sin \theta = 2$ (3)

GRAND TOTAL: 60 MARKS

Mathematics Memorandum Grade 11 March

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Maths Handbook and Study Guide Grade 11 Kevin Smith, 2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back **Government**

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