

## 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  $\sin x = \frac{1}{2}$  (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  $\frac{\sin^2 30^\circ + \cos^2 30^\circ}{\sin 60^\circ}$  (4)

1.4.2  $\frac{\sin 45^\circ \cos 45^\circ}{\sin 90^\circ}$  (5)

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

$x^2 - 5x + 7 = 0$  (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  $\frac{\sin^2 \theta + \cos^2 \theta}{\sin \theta} \times 2 \cos \theta$  (2)

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

2.2.1  $\cos \theta = \dots$  (4)

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

(4)

2.4 Solve  $\theta$  without using a calculator

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

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

(3)

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

(3)

[22]

GRAND TOTAL: 60 MARKS

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**Daniel F McAuley**



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