

## MATHEMATICS N2 CLASS EXERCISE 1

### QUESTION 1

1.1 Solve the following equations:

1.1.1  $-x^2 + 3x - 2 = 0$  by factorisation (3)

1.1.2  $6(2 - m) - 5(4 - m) = 7$  (3)

1.2 Given: the formula  $p = \sqrt[3]{r^2 - q^2}$

1.2.1 Make '  $r$  ' the subject of the formula (3)

1.2.2 Calculate the value of '  $r$  ' if  $p = 4$  and  $q = 6$  (1)

1.3 Solve for '  $x$  ' and '  $y$  ' in the following simultaneous equations:

$5x = 6y + 3$  and  $3y - 4x + 1 = 0$  (4)

[14]

### QUESTION 2

2.1 A man deducted 3 from 5 times his age and got his grandmother's age.

If his grandmother is 97 years old, how old is the man? (2)

2.2 Given:  $4n^2 - 15n - 47 = 0$

Solve for '  $n$  ' the equation using the quadratic formula. (3)

2.3 Given:  $H = \frac{7,5U}{273 + V}$

2.3.1 Make '  $V$  ' the subject of the formula. (3)

2.3.2 Find the value of '  $V$  ' if  $U = 0,5$  and  $H = 0,005$  (1)

2.4 Given:  $8p - 1 = -2q$  and  $2p + 3q = 4$

Solve for '  $p$  ' and '  $q$  ' (4)

[13]

**TOTAL: 27 MARKS**

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