### MATHEMATICS N2 CLASS EXERCISE 1

#### OUESTION 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  $p = \sqrt[3]{r^2 - q^2}$ 

1.2.2 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)

#### **OUESTION 2**

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

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

2.3 Given:  $H = \frac{7.5U}{273 + V}$ 

(1)

[13]

2.3.2 Find the value of 'V' if U = 0.5 and H = 0.005

2.4 Given: 
$$8p-1=-2q$$
 and  $2p+3q=4$   
Solve for  $p$  and  $q$  (4)

## TOTAL: 27 MARKS

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