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)

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=4Solve for p and q

Solve for
$$p$$
 and q (4) [13]

TOTAL: 27 MARKS

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jul 24 2023 the feed network of the antenna is composed of an air filled rectangular waveguide rwg to substrate integrated waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss