CSEC ADDITIONAL MATHEMATICS JUNE 2022 PAPER 2

SECTION I

ALGEBRA, SEQUENCES AND SERIES

ALL working must be clearly shown.

1. (a)   Consider the quadratic equation $qx^2 - (4p)x + pq^2 = 0$, where p and q are both positive integers.

    (i)   Express the sum AND product of the roots of the equation in terms of p and q.

    SOLUTION:

    Data: $qx^2 - (4p)x + pq^2 = 0$

    Required to express: The sum AND product of the roots of the equation in terms of p and q.

    Solution:

    If $ax^2 + bx + c = 0$ has roots α and β, then
    $(x - \alpha)(x - \beta) = 0$
    i.e. $x^2 - (\alpha + \beta)x + \alpha\beta = 0$
    Equating coefficients, we have
    The sum of the roots, $\alpha + \beta = -\dfrac{b}{a}$ and the product of the roots

    $\alpha\beta = \dfrac{c}{a}$

    In the given equation $qx^2 - (4p)x + pq^2 = 0$, we have $a = q$, $b = -4p$ and $c = pq^2$

    Sum of the roots $= \dfrac{-(-4p)}{q}$

    $= \dfrac{4p}{q}$

    Product of the roots $= \dfrac{pq^2}{q}$

    $= pq$

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