

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

$$(x - \alpha)(x - \beta) = 0$$

$$\text{i.e. } x^2 - (\alpha + \beta)x + \alpha\beta = 0$$

Equating coefficients, we have

The sum of the roots, $\alpha + \beta = -\frac{b}{a}$ and the product of the roots

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

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

$$\begin{aligned} \text{Sum of the roots} &= \frac{-(-4p)}{q} \\ &= \frac{4p}{q} \end{aligned}$$

$$\begin{aligned} \text{Product of the roots} &= \frac{pq^2}{q} \\ &= pq \end{aligned}$$

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Xiaolong Qi

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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