

Chapter 02

POLYNOMIALS

Formation of a quadratic polynomial:

Let α, β be the roots (or) zeroes of quadratic polynomial

$ax^2 + bx + c$ then,

$$P(x) = \lambda \left[x^2 - (\text{sum of zeroes})x + \text{Product of zeroes} \right],$$

where λ is any non-zero real number.

$$P(x) = \lambda (x^2 - Sx + P) = 0$$

Where, $S = \text{sum of roots(zeroes)} = (\alpha + \beta)$

$P = \text{Product of roots(zeroes)} = (\alpha\beta)$

