

REE ACA



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Class - 10th

Worksheet-05

Chapter-3 **Polynomials** **Subject Maths** Date:__/__/__

Find a quadratic polynomial each with the given numbers as the sum and product of its zeroes respectively. (Q4 to Q6)

- 1. 1, 1
- 2. $\frac{1}{4}$, $-\frac{1}{4}$
- 3. 4, 1

Divide the polynomial p(x) by the polynomial q(x) and find the quotient and remainder in each of the following: (Q8-Q9)

4.
$$p(x) = x^3 - 3x^2 + 5x - 3$$
,

$$g(x) = x^2 - 2$$

5.
$$p(x) = x^4 - 3x^2 + 4x + 5$$
,

$$g(x) = x^2 + 1 - x$$

Check whether the first polynomial is a factor of the second polynomial by dividing the second polynomial by the first polynomial:

6.
$$t^2 - 3$$
, $2t^4 + 3t^3 - 2t^2 - 9t - 12$

7.
$$x^2 + 3x + 1$$
, $3x^4 + 5x^3 - 7x^2 + 2x + 2$

8. On dividing $x^3 - 3x^2 + x + 2$ by a polynomial g(x), the quotient and remainder were x - 2 and -2x + 4, respectively. Find g(x).