

REE ACA



An English Medium Co.Ed. School | Science & Commerce

W: www.vsajaipur.com | E: vsajaipur@gmail.com M.: +91 9460356652, 8058999828 Add.: 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015

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Class - 9th

Chapter-2

Subject Maths Polynomial

Worksheet-03

Determine which of the following polynomials has (x + 1) a factor:

1.
$$x^3 + x^2 + x + 1$$

2.
$$x^4 + x^3 + x^2 + x + 1$$

Use the Factor Theorem to determine whether q(x) is a factor of p(x) in each of the following cases:

3.
$$p(x) = x^3 - 4x^2 + x + 6$$
, $g(x) = x - 3$

4.
$$p(x) = 4x^3 - 3x^2 + x - 4$$
, $g(x) = x - 1$

Factorise:

5.
$$6x^2 + 5x - 6$$

6.
$$3x^2 - x - 4$$

Factorise:

7.
$$x^3 + 13x^2 + 32x + 20$$

8.
$$2y^3 + y^2 - 2y - 1$$