

Class – 9th

Chapter-2

Subject Maths

Worksheet-03

Polynomial

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 $g(x)$ 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. $2y^3 + y^2 - 2y - 1$