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Little Steps
Pre Primary wing of VSA
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Class – 9th **Chapter-2** **Subject Maths**

Worksheet-04 **Polynomial**

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

1. $x^4 + 3x^3 + 3x^2 + x + 1$
2. $x^3 - x^2 - (2 + \sqrt{2})x + \sqrt{2}$

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

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

Factorise :

5. $12x^2 - 7x + 1$
6. $2x^2 + 7x + 3$

Factorise :

7. $x^3 - 2x^2 - x + 2$
8. $x^3 - 3x^2 - 9x - 5$