Name :   Date :

Grade :   **Worksheet**   Submission Date :

Subject : Math   Parent's sign :

Chapter-2

Polynomials

1. Check the following will be a factor or not:

   a. $p(y) = y^3 - 2y^2 - 29y - 42$,

   i) y + 2   ii) y + 3   iii) y -7   iv) y + 7

2. Find the value of k , if (x -1) is a factor of $p(x) = 4x^3 + 3x^2 - 4x + k$.

3. Find the value of p , if (x +1) is a factor of $p(x) = x^{98} + 2x^{37} + p$.

4. Determine whether g(x) is a factor of f(x):

   a) $f(x) = x^3 - 3x^2 + 4x - 4$, g(x) = x -2

   b) $f(x) = x^3 + x^2 + 3x + 175$, g(x) = x +5.