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POLYNOMIALS

ASSIGNMENT NO. 17

- 1. Show that (x 1) is a factor of the polynomial $f(x) = 2x^3 3x^2 + 7x 6$.
- 2. Evaluate 105×93
- 3. Factorise: $\left(5a + \frac{2}{3}\right)^2 \left(2a \frac{1}{3}\right)^2$
- 4. Factorise: $125x^3 + 27y^3 + 8z^3 90xyz$
- 5. Check whether the polynomial $p(x) = 3x^4 + 4x^3 10x^2 5x 30$ is a multiple of (x 2) and (x + 3).
- 6. If the polynomials $f(x) = x^4 2x^3 + 3x^2 9x + 3a 7$, when divided by (x + 1) leaves the remainder 20, then find the value of a. Also find the remainder when f(x) is divided by (x + 2).
- 7. Factorise: $x^3 + x^2 4x 4$
- 8. If $x^2 + \frac{1}{x^2} = 7$, find the value of $x^3 + \frac{1}{x^3}$
- 9. Show that (2x + 1) is a factor of $2x^3 11x^2 4x + 1$
- 10. Find the remainder, when $x^3 3x^2 + 3x 1$ is divided by (x 1)