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Number System and Polynomials Crossword Puzzle

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| **Across**  **5.** F(x) = √3 is a \_\_\_\_\_\_ polynomial  **8.** Zeroes of a polynomial can be determined by  **9.** Zeroes of p(X)= x^2 -4 are  **10.** π is  **13.** If p(-1)= 0, then x +1 is a \_\_\_\_\_ of p(x)  **14.** Remainder when p(x) = x(x-3)(x-5) is divided by g(x) = (x -2) is  **16.** Polynomial with three terms  **20.** Decimal expansion of irrational number  **22.** (x-1) is a factor of n-degree polynomial if sum of coefficients is  **23.** For an n degree polynomial, coefficient of x^n cannot be | **Down**  **1.** Graph of a cubic polynomial in x cuts the x-axis at \_\_\_\_ points  **2.** Conversion of surd to rational number  **3.** Graph of a quadratic polynomial  **4.** Degree-4 polynomial  **6.** Number of zeroes of a biquadratic polynomial  **7.** Every point on the number line  **11.** Number of rational numbers between 2 rational numbers  **12.** Exponent of term with highest power  **15.** Nth root of a number  **17.** (1+3x) is a  **18.** Degree of the remainder is always \_\_\_\_ than degree of divisor  **19.** Positive integers with only one common factor  **21.** Zeroes of a constant polynomial |