Factor theoren and polynomial division

Aim: Solve contain types of public equation $4x^3 + 6x^2 + cx + d = 0.$

Let N30 be an integer. A polynomial in a variable x is an expression of the form

 $p(x) = a_n x^n + a_{n-1} x^{n-1} + \dots + a_1 x + a_0$,

If $a_n \neq 0$ then we say that the degree of p(x) is n.

we denote this by deg(p)=h.