Maths Learning Service: Revision Mathematics IA Polynomials



A polynomial of degree n is a function of the form

$$P(X) = \partial_n X^n + \partial_{n-1} X^{n-1} + \partial_{n-2} X^{n-2} + \ldots + \partial_2 X^2 + \partial_1 X + \partial_0$$

where $a_n = 0$. Quadratics, for example, are polynomials of degree two.

A zero of a polynomial is a value of x which makes the polynomial equal to zero.

The solutions to a polynomial equation of the form P(x)

1. (a) $x = 0, \pm \overline{5}$ (b) $x = -^1$