Lesson 1 Polynomial functions

A **polynomial function** $y = f(x)$ is a function of the form $f(x) = a_n x^n + a_{n-1} x^{n-1} + \cdots + a_2 x^2 + a_1 x + a_0$ where the coefficients $a_n, a_{n+1}, \ldots a_2, a_1, a_0$ are real constants and n is a non-negative integer.

Ex. These are polynomials:
$$y = x^4 + 3x^3 - 2x^2 + 5x - 2$$
$$y = 2x^2 - 3x$$
$$y = 8 \qquad (y = 8x^0)$$

These are not polynomials:
$$y = 2\sqrt{x} + 8$$
$$y = 3x^2 - 2x^{-2}$$

Degree: The highest power of x in a polynomial
Leading coefficient (a_n) : the coefficient of the greatest power of x.
Constant term (a_0) : the term without the variable.

Degree   Constant term

Ex. $f(x) = 3x^5 - 4x^3 - 3x + 8$

Leading coefficient

Some special polynomials

$n = 0$	$f(x) = a_0$	(Constant function)
$n = 1$	$f(x) = a_1 x + a_0$	(Linear function)
$n = 2$	$f(x) = a_2 x^2 + a_1 x + a_0$	(Quadratic function)
$n = 3$	$f(x) = a_3 x^3 + a_2 x^2 + a_1 x + a_0$	(Cubic function)
$n = 4$	$f(x) = a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$	(Quartic function)
$n = 5$	$f(x) = a_5 x^5 + a_4 x^4 + a_3 x^3 + a_2 x^2 + a_1 x + a_0$	(Quintic function)

Finite differences provide a means for identifying polynomial functions from a table of values.

Ex. Given the following data, determine the degree of the polynomial function it represents.

a)

x	y	Δy
-3	-4	$2 - (-2) = 2$
-2	-2	$0 - (-2) = 2$
-1	0	2
0	2	2
1	4	2
2	6	2
3	8	2

Since the first differences are constant, the function is a linear polynomial

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