

Lesson 1 Polynomial functions

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

Ex. These are polynomials: $y = x^4 + 3x^3 - 2x^2 + 5x - 2$

$$y = 2x^2 - 3x$$

$$y = 8 \quad (y = 8x^0)$$

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.

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

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

Polynomial Functions Unit 7 Lesson 1

E Durkheim



Polynomial Functions Unit 7 Lesson 1:

Decoding **Polynomial Functions Unit 7 Lesson 1**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Polynomial Functions Unit 7 Lesson 1**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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