

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

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Polynomial Functions Unit 7 Lesson 1 Answers Tesccc Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Polynomial Functions Unit 7 Lesson 1 Answers Tesccc**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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