

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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Table of Contents Polynomial Functions Unit 7 Lesson 1 Answers Tesccc

1. Understanding the eBook Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - The Rise of Digital Reading Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Advantages of eBooks Over Traditional Books
2. Identifying Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Personalized Recommendations
 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc User Reviews and Ratings
 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc and Bestseller Lists
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 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc eBook Subscription Services
 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc Budget-Friendly Options
6. Navigating Polynomial Functions Unit 7 Lesson 1 Answers Tesccc eBook Formats
- ePub, PDF, MOBI, and More
 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc Compatibility with Devices
 - Polynomial Functions Unit 7 Lesson 1 Answers Tesccc Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Highlighting and Note-Taking Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Interactive Elements Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
8. Staying Engaged with Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
9. Balancing eBooks and Physical Books Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
- Setting Reading Goals Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
- Fact-Checking eBook Content of Polynomial Functions Unit 7 Lesson 1 Answers Tesccc
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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